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Please read this notice before using the TAIYO YUDEN products.

## REMINDERS

- Product information in this catalog is as of October 2017. All of the contents specified herein are subject to change without notice due to technical improvements, etc. Therefore, please check for the latest information carefully before practical application or use of our products.

Please note that TAIYO YUDEN shall not be in any way responsible for any damages and defects in products or equipment incorporating our products, which are caused under the conditions other than those specified in this catalog or individual product specification sheets.

- Please contact TAIYO YUDEN for further details of product specifications as the individual product specification sheets are available.
- Please conduct validation and verification of our products in actual condition of mounting and operating environment before using our products.
- The products listed in this catalog are intended for use in general electronic equipment (e.g., AV equipment, OA equipment, home electric appliances, office equipment, information and communication equipment including, without limitation, mobile phone, and PC) and medical equipment classified as Class I or II by IMDRF. Please be sure to contact TAIYO YUDEN for further information before using the products for any equipment which may directly cause loss of human life or bodily injury (e.g., transportation equipment including, without limitation, automotive powertrain control system, train control system, and ship control system, traffic signal equipment, disaster prevention equipment, medical equipment classified as Class III by IMDRF, highly public information network equipment including, without limitation, telephone exchange, and base station).

Please do not incorporate our products into any equipment requiring high levels of safety and/or reliability (e.g., aerospace equipment, aviation equipment\*, medical equipment classified as Class IV by IMDRF, nuclear control equipment, undersea equipment, military equipment).

\*Note: There is a possibility that our products can be used only for aviation equipment that does not directly affect the safe operation of aircraft (e.g., in-flight entertainment, cabin light, electric seat, cooking equipment) if such use meets requirements specified separately by TAIYO YUDEN. Please be sure to contact TAIYO YUDEN for further information before using our products for such aviation equipment.

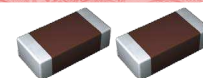
When our products are used even for high safety and/or reliability-required devices or circuits of general electronic equipment, it is strongly recommended to perform a thorough safety evaluation prior to use of our products and to install a protection circuit as necessary.

Please note that unless you obtain prior written consent of TAIYO YUDEN, TAIYO YUDEN shall not be in any way responsible for any damages incurred by you or third parties arising from use of the products listed in this catalog for any equipment requiring inquiry to TAIYO YUDEN or prohibited for use by TAIYO YUDEN as described above.

- Information contained in this catalog is intended to convey examples of typical performances and/or applications of our products and is not intended to make any warranty with respect to the intellectual property rights or any other related rights of TAIYO YUDEN or any third parties nor grant any license under such rights.
- Please note that the scope of warranty for our products is limited to the delivered our products themselves and TAIYO YUDEN shall not be in any way responsible for any damages resulting from a fault or defect in our products. Notwithstanding the foregoing, if there is a written agreement (e.g., supply and purchase agreement, quality assurance agreement) signed by TAIYO YUDEN and your company, TAIYO YUDEN will warrant our products in accordance with such agreement.
- The contents of this catalog are applicable to our products which are purchased from our sales offices or authorized distributors (hereinafter "TAIYO YUDEN's official sales channel"). Please note that the contents of this catalog are not applicable to our products purchased from any seller other than TAIYO YUDEN's official sales channel.
- Caution for Export  
Some of our products listed in this catalog may require specific procedures for export according to "U.S. Export Administration Regulations", "Foreign Exchange and Foreign Trade Control Law" of Japan, and other applicable regulations. Should you have any questions on this matter, please contact our sales staff.



# MULTILAYER CERAMIC CAPACITORS



WAVE REFLOW

## PARTS NUMBER

J	M	K	3	1	6	△	B	J	1	0	6	M	L	-	T	△
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫					

△=Blank space

### ① Rated voltage

Code	Rated voltage [VDC]
P	2.5
A	4
J	6.3
L	10
E	16
T	25
G	35
U	50
H	100
Q	250
S	630

### ③ End termination

Code	End termination
K	Plated
S	Cu Internal Electrodes

### ② Series name

Code	Series name
M	Multilayer ceramic capacitor
V	Multilayer ceramic capacitor for high frequency
W	LW reverse type multilayer capacitor

### ④ Dimension (L × W)

Type	Dimensions (L × W) [mm]	EIA (inch)
021	0.25 × 0.125	008004
042	0.4 × 0.2	01005
063	0.6 × 0.3	0201
105	1.0 × 0.5	0402
	0.52 × 1.0 ※	0204
107	1.6 × 0.8	0603
	0.8 × 1.6 ※	0306
212	2.0 × 1.25	0805
	1.25 × 2.0 ※	0508
316	3.2 × 1.6	1206
325	3.2 × 2.5	1210
432	4.5 × 3.2	1812

Note : ※LW reverse type (□WK) only

### ⑤ Dimension tolerance

Code	Type	L [mm]	W [mm]	T [mm]
△	ALL	Standard	Standard	Standard
A	063	0.6±0.05	0.3±0.05	0.3±0.05
	105	1.0±0.10	0.5±0.10	0.5±0.10
	107	1.6+0.15/-0.05	0.8+0.15/-0.05	0.8+0.15/-0.05
	212	2.0+0.15/-0.05	1.25+0.15/-0.05	0.45±0.05
				0.85±0.10
				1.25+0.15/-0.05
316	3.2±0.20	1.6±0.20	0.85±0.10	
325	3.2±0.30	2.5±0.30	1.6±0.20	
B	063	0.6±0.09	0.3±0.09	2.5±0.30
	105	1.0+0.15/-0.05	0.5+0.15/-0.05	0.3±0.09
	107	1.6+0.20/-0	0.8+0.20/-0	0.5+0.15/-0.05
				0.45±0.05
	212	2.0+0.20/-0	1.25+0.20/-0	0.8+0.20/-0
0.45±0.05				
316	3.2±0.30	1.6±0.30	0.85±0.10	
C	105	1.0+0.20/-0	0.5+0.20/-0	1.25+0.20/-0
				1.6±0.30

Note: cf. STANDARD EXTERNAL DIMENSIONS

△= Blank space

### ⑥ Temperature characteristics code

■ High dielectric type (Excluding Super low distortion multilayer ceramic capacitor)

Code	Applicable standard	Temperature range [°C]	Ref. Temp. [°C]	Capacitance change	Capacitance tolerance	Tolerance code
BJ	JIS	B	-25~+85	20	±10%	K
						M
	EIA	X5R	-55~+85	25	±15%	K
B7	EIA	X7R	-55~+125	25	±15%	M
						K
C6	EIA	X6S	-55~+105	25	±22%	K
						M
C7	EIA	X7S	-55~+125	25	±22%	K
						M
LD(※)	EIA	X5R	-55~+85	25	±15%	K
						M

Note : ※LD Low distortion high value multilayer ceramic capacitor

△= Blank space

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■ Temperature compensating type

Code	Applicable standard		Temperature range [°C]	Ref. Temp. [°C]	Capacitance change	Capacitance tolerance	Tolerance code
CG	EIA	C0G	-55 ~ +125	25	0 ± 30ppm/°C	±0.05pF	A
						±0.1pF	B
						±0.25pF	C
						±0.5pF	D
						±5%	J
UJ	JIS	UJ	-55 ~ +125	20	-750 ± 120ppm/°C	±0.25pF	C
						±0.5pF	D
	EIA	U2J		25		±5%	J
UK	JIS	UK	-55 ~ +125	20	-750 ± 250ppm/°C	±0.25pF	C
	EIA	U2K	-55 ~ +125	25			
SL	JIS	SL	-55 ~ +125	20	+350 ~ -1000ppm/°C	±5%	J

⑥ Series code

• Super low distortion multilayer ceramic capacitor

Code	Series code
SD	Standard

• Medium-High Voltage Multilayer Ceramic Capacitor

Code	Series code
SD	Standard

⑦ Nominal capacitance

Code (example)	Nominal capacitance
0R5	0.5pF
010	1pF
100	10pF
101	100pF
102	1,000pF
103	10,000pF
104	0.1 μF
105	1.0 μF
106	10 μF
107	100 μF

Note : R=Decimal point

⑧ Capacitance tolerance

Code	Capacitance tolerance
A	±0.05pF
B	±0.1pF
C	±0.25pF
D	±0.5pF
F	±1pF
G	±2%
J	±5%
K	±10%
M	±20%
Z	+80/-20%

⑨ Thickness

Code	Thickness [mm]
K	0.125
H	0.13
E	0.18
C	0.2
D	
P	0.3
T	
K	0.45 (107type or more)
V	0.5
W	
A	0.8
D	0.85 (212type or more)
F	1.15
G	1.25
L	1.6
N	1.9
Y	2.0 max
M	2.5

⑩ Special code

Code	Special code
-	Standard

⑪ Packaging

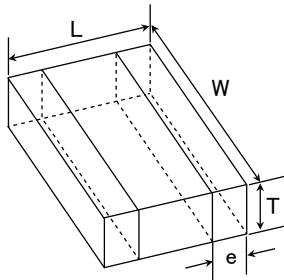
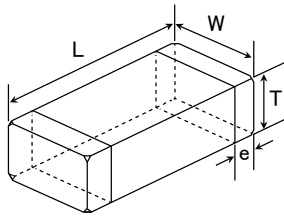
Code	Packaging
F	φ178mm Taping (2mm pitch)
T	φ178mm Taping (4mm pitch)
P	φ178mm Taping (4mm pitch, 1000 pcs/reel) 325 type (Thickness code M)
R	φ178mm Taping (2mm pitch) 105type only (Thickness code E,H)
W	φ178mm Taping (1mm pitch) 021/042type only

⑫ Internal code

Code	Internal code
△	Standard

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■ STANDARD EXTERNAL DIMENSIONS



※ LW reverse type

Type( EIA )	Dimension [mm]					
	L	W	T	*1	e	
□MK021(008004)	0.25±0.013	0.125±0.013	0.125±0.013	K	0.0675±0.0275	
□VS021(008004)	0.25±0.013	0.125±0.013	0.125±0.013	K	0.0675±0.0275	
□MK042(01005)	0.4±0.02	0.2±0.02	0.2±0.02	C	0.1±0.03	
□VS042(01005)				D		
□MK063(0201)	0.6±0.03	0.3±0.03	0.3±0.03	P	0.15±0.05	
□MK105(0402)				T		
□MK105(0402)	1.0±0.05	0.5±0.05	0.5±0.05	0.13±0.02	H	0.25±0.10
				0.18±0.02	E	
				0.2±0.02	C	
				0.3±0.03	P	
				0.5±0.05	V	
□VK105(0402)	1.0±0.05	0.5±0.05	0.5±0.05	W	0.25±0.10	
□WK105(0204)※	0.52±0.05	1.0±0.05	0.3±0.05	P	0.18±0.08	
□MK107(0603)	1.6±0.10	0.8±0.10	0.8±0.10	0.45±0.05	K	0.35±0.25
				0.8±0.10	A	
□WK107(0306)※	0.8±0.10	1.6±0.10	0.5±0.05	V	0.25±0.15	
□MK212(0805)	2.0±0.10	1.25±0.10	1.25±0.10	0.45±0.05	K	0.5±0.25
				0.85±0.10	D	
				1.25±0.10	G	
□WK212(0508)※	1.25±0.15	2.0±0.15	0.85±0.10	D	0.3±0.2	
□MK316(1206)	3.2±0.15	1.6±0.15	1.6±0.15	0.85±0.10	D	0.5+0.35/-0.25
				1.15±0.10	F	
				1.6±0.20	L	
□MK325(1210)	3.2±0.30	2.5±0.20	2.5±0.20	0.85±0.10	D	0.6±0.3
				1.15±0.10	F	
				1.9±0.20	N	
				1.9+0.1/-0.2	Y	
□MK432(1812)	4.5±0.40	3.2±0.30	2.5±0.20	M	0.9±0.6	

Note : ※. LW reverse type, \*1.Thickness code

■ STANDARD QUANTITY

Type	EIA (inch)	Dimension		Standard quantity [pcs]			
		[mm]	Code	Paper tape	Embossed tape		
021	008004	0.125	K	—	50000		
042	01005	0.2	C	—	40000		
			D				
063	0201	0.3	P	15000	—		
			T				
105	0402	0.13	H	—	20000		
			E				
			C			20000	—
			P			15000	—
			V			10000	—
			W				
0204 ※	0.30	P	—	—			
107	0603	0.45	K	4000	—		
			A				
0306 ※	0.50	0.50	V	—	4000		
212	0805	0.45	K	4000	—		
			D				
			G			—	3000
0508 ※	0.85	D	4000	—	—		
316	1206	0.85	D	4000	—		
			F			—	3000
			L			—	2000
325	1210	0.85	D	—	2000		
			F				
			N				
			2.0 max			Y	
432	1812	2.5	M	—	1000		
			M			—	500

Note : ※.LW Reverse type(□WK)

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■ PARTS NUMBER

- All the Multilayer Ceramic Capacitors of the catalog lineup are RoHS Compliant.
- Capacitance tolerance code is applied to □ of part number.

Note)

\*1 We may provide X7R/X7S for some items according to the individual specification.

\*2 The exchange of individual specification is necessary depending on the application and circuit condition. Please contact TAIYO YUDEN sales channels.

\*3 The size standard should look at ④Dimension, ⑤Dimension tolerance, and ⑨Thickness, and STANDARD EXTERNAL DIMENSIONS.

**Multilayer Ceramic Capacitors (High dielectric type)**

● 021TYPE

【Temperature Characteristic BJ : X5R】 0.125mm thickness (K)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT	Thickness*3 [mm]	Soldering R:Reflow W:Wave
							Rated voltage x %		
EMK021 BJ221□K-W		16	X5R	220 p	±10, ±20	10	150	0.125±0.013	R
EMK021 BJ471□K-W			X5R	470 p	±10, ±20	10	150		
EMK021 BJ102□K-W			X5R	1000 p	±10, ±20	10	150		
JMK021 BJ222□K-W		6.3	X5R	2200 p	±10, ±20	10	150	0.125±0.013	R
JMK021 BJ472□K-W			X5R	4700 p	±10, ±20	10	150		
JMK021 BJ103□K-W			X5R	0.01 μ	±10, ±20	10	150		
AMK021 BJ223MK-W		4	X5R	0.022 μ	±20	10	150	0.125±0.013	R

● 042TYPE

【Temperature Characteristic BJ : B/X5R】 0.2mm thickness (C)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT	Thickness*3 [mm]	Soldering R:Reflow W:Wave
							Rated voltage x %		
EMK042 BJ101□C-W		16	B X5R	100 p	±10, ±20	5	200	0.2±0.02	R
EMK042 BJ151□C-W			B X5R	150 p	±10, ±20	5	200		
EMK042 BJ221□C-W			B X5R	220 p	±10, ±20	5	200		
EMK042 BJ331□C-W			B X5R	330 p	±10, ±20	5	200		
EMK042 BJ471□C-W			B X5R	470 p	±10, ±20	5	200		
EMK042 BJ681□C-W			B X5R	680 p	±10, ±20	5	200		
EMK042 BJ102□C-W			B X5R	1000 p	±10, ±20	5	200		
EMK042 BJ152□C-W			X5R	1500 p	±10, ±20	10	150		
EMK042 BJ222□C-W			X5R	2200 p	±10, ±20	10	150		
EMK042 BJ332□C-W			X5R	3300 p	±10, ±20	10	150		
EMK042 BJ472□C-W			X5R	4700 p	±10, ±20	10	150		
EMK042 BJ682□C-W			X5R	6800 p	±10, ±20	10	150		
EMK042 BJ103□C-W			X5R	0.01 μ	±10, ±20	10	150		
LMK042 BJ101□C-W			B X5R <sup>*1</sup>	100 p	±10, ±20	5	200		
LMK042 BJ151□C-W			B X5R <sup>*1</sup>	150 p	±10, ±20	5	200		
LMK042 BJ221□C-W			B X5R <sup>*1</sup>	220 p	±10, ±20	5	200		
LMK042 BJ331□C-W		B X5R <sup>*1</sup>	330 p	±10, ±20	5	200			
LMK042 BJ471□C-W		B X5R <sup>*1</sup>	470 p	±10, ±20	5	200			
LMK042 BJ681□C-W		B X5R <sup>*1</sup>	680 p	±10, ±20	5	200			
LMK042 BJ102□C-W		B X5R <sup>*1</sup>	1000 p	±10, ±20	5	200			
LMK042 BJ152□C-W		X5R	1500 p	±10, ±20	10	150			
LMK042 BJ222□C-W		X5R	2200 p	±10, ±20	10	150			
LMK042 BJ332□C-W		X5R	3300 p	±10, ±20	10	150			
LMK042 BJ472□C-W		X5R	4700 p	±10, ±20	10	150			
LMK042 BJ682□C-W		X5R	6800 p	±10, ±20	10	150			
LMK042 BJ103□C-W		X5R	0.01 μ	±10, ±20	10	150			
JMK042 BJ152□C-W		6.3	B X5R <sup>*1</sup>	1500 p	±10, ±20	10	150	0.2±0.02	R
JMK042 BJ222□C-W			B X5R <sup>*1</sup>	2200 p	±10, ±20	10	150		
JMK042 BJ332□C-W			B X5R <sup>*1</sup>	3300 p	±10, ±20	10	150		
JMK042 BJ472□C-W			B X5R <sup>*1</sup>	4700 p	±10, ±20	10	150		
JMK042 BJ682□C-W			B X5R <sup>*1</sup>	6800 p	±10, ±20	10	150		
JMK042 BJ103□C-W			B X5R <sup>*1</sup>	0.01 μ	±10, ±20	10	150		
JMK042 BJ223□C-W			X5R	0.022 μ	±10, ±20	10	150		
JMK042 BJ473□C-W			X5R	0.047 μ	±10, ±20	10	150		
JMK042 BJ104□C-W			X5R	0.1 μ	±10, ±20	10	150		
AMK042 BJ473□C-W			X5R	0.047 μ	±10, ±20	10	150		
AMK042 BJ104□C-W		X5R	0.1 μ	±10, ±20	10	150			

【Temperature Characteristic B7 : X7R】 0.2mm thickness (C)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT	Thickness*3 [mm]	Soldering R:Reflow W:Wave
							Rated voltage x %		
EMK042 B7101□C-W		16	X7R	100 p	±10, ±20	5	200	0.2±0.02	R
EMK042 B7151□C-W			X7R	150 p	±10, ±20	5	200		
EMK042 B7221□C-W			X7R	220 p	±10, ±20	5	200		
EMK042 B7331□C-W			X7R	330 p	±10, ±20	5	200		
EMK042 B7471□C-W			X7R	470 p	±10, ±20	5	200		
EMK042 B7681□C-W			X7R	680 p	±10, ±20	5	200		
EMK042 B7102□C-W			X7R	1000 p	±10, ±20	5	200		
LMK042 B7101□C-W			X7R	100 p	±10, ±20	5	200		
LMK042 B7151□C-W			X7R	150 p	±10, ±20	5	200		
LMK042 B7221□C-W			X7R	220 p	±10, ±20	5	200		
LMK042 B7331□C-W		10	X7R	330 p	±10, ±20	5	200	0.2±0.02	R
LMK042 B7471□C-W			X7R	470 p	±10, ±20	5	200		
LMK042 B7681□C-W			X7R	680 p	±10, ±20	5	200		
LMK042 B7102□C-W			X7R	1000 p	±10, ±20	5	200		

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## 063TYPE

[Temperature Characteristic BJ : B/X5R] 0.3mm thickness (P)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT		Soldering R:Reflow W:Wave	
								Rated voltage x %	Thickness <sup>*3</sup> [mm]		
UMK063 BJ101□P-F		50	B	X5R <sup>+1</sup>	100 p	±10, ±20	3.5	200	0.3±0.03	R	
UMK063 BJ151□P-F			B	X5R <sup>+1</sup>	150 p	±10, ±20	3.5	200	0.3±0.03	R	
UMK063 BJ221□P-F			B	X5R <sup>+1</sup>	220 p	±10, ±20	3.5	200	0.3±0.03	R	
UMK063 BJ331□P-F			B	X5R <sup>+1</sup>	330 p	±10, ±20	3.5	200	0.3±0.03	R	
UMK063 BJ471□P-F			B	X5R <sup>+1</sup>	470 p	±10, ±20	3.5	200	0.3±0.03	R	
UMK063 BJ681□P-F			B	X5R <sup>+1</sup>	680 p	±10, ±20	3.5	200	0.3±0.03	R	
UMK063 BJ102□P-F			B	X5R <sup>+1</sup>	1000 p	±10, ±20	3.5	200	0.3±0.03	R	
UMK063 BJ152□P-F			B	X5R	1500 p	±10, ±20	5	200	0.3±0.03	R	
UMK063 BJ222□P-F			B	X5R	2200 p	±10, ±20	5	200	0.3±0.03	R	
UMK063 BJ332□P-F			B	X5R	3300 p	±10, ±20	5	200	0.3±0.03	R	
UMK063 BJ472□P-F			B	X5R	4700 p	±10, ±20	5	200	0.3±0.03	R	
UMK063 BJ682□P-F			B	X5R	6800 p	±10, ±20	5	200	0.3±0.03	R	
UMK063 BJ103□P-F			B	X5R	0.01 μ	±10, ±20	5	200	0.3±0.03	R	
GMK063 BJ104□P-F			35	X5R	0.1 μ	±10, ±20	10	150	0.3±0.03	R	
TMK063 BJ152□P-F			25	B	X5R	1500 p	±10, ±20	5	200	0.3±0.03	R
TMK063 BJ222□P-F				B	X5R	2200 p	±10, ±20	5	200	0.3±0.03	R
TMK063 BJ332□P-F		B		X5R	3300 p	±10, ±20	5	200	0.3±0.03	R	
TMK063 BJ472□P-F		B		X5R	4700 p	±10, ±20	5	200	0.3±0.03	R	
TMK063 BJ682□P-F		B		X5R	6800 p	±10, ±20	5	200	0.3±0.03	R	
TMK063 BJ103□P-F		B		X5R	0.01 μ	±10, ±20	5	200	0.3±0.03	R	
TMK063 BJ223□P-F		B		X5R	0.022 μ	±10, ±20	7.5	200	0.3±0.03	R	
TMK063ABJ104□P-F		X5R		0.1 μ	±10, ±20	10	150	0.3±0.05	R		
EMK063 BJ152□P-F		16	B	X5R <sup>+1</sup>	1500 p	±10, ±20	5	200	0.3±0.03	R	
EMK063 BJ222□P-F			B	X5R <sup>+1</sup>	2200 p	±10, ±20	5	200	0.3±0.03	R	
EMK063 BJ332□P-F			B	X5R <sup>+1</sup>	3300 p	±10, ±20	5	200	0.3±0.03	R	
EMK063 BJ472□P-F			B	X5R <sup>+1</sup>	4700 p	±10, ±20	5	200	0.3±0.03	R	
EMK063 BJ682□P-F			B	X5R <sup>+1</sup>	6800 p	±10, ±20	5	200	0.3±0.03	R	
EMK063 BJ103□P-F			B	X5R <sup>+1</sup>	0.01 μ	±10, ±20	5	200	0.3±0.03	R	
EMK063 BJ223□P-F			B	X5R	0.022 μ	±10, ±20	7.5	200	0.3±0.03	R	
EMK063 BJ333□P-F			X5R	0.033 μ	±10, ±20	7.5	150	0.3±0.03	R		
EMK063 BJ473□P-F			X5R	0.047 μ	±10, ±20	7.5	150	0.3±0.03	R		
EMK063 BJ683□P-F			X5R	0.068 μ	±10, ±20	10	150	0.3±0.03	R		
EMK063 BJ104□P-F			X5R	0.1 μ	±10, ±20	10	150	0.3±0.03	R		
EMK063 BJ224□P-F			X5R	0.22 μ	±10, ±20	10	150	0.3±0.03	R		
EMK063BBJ474□PLF			X5R	0.47 μ	±10, ±20	10	150	0.3±0.09	R		
LMK063 BJ223□P-F			10	B	X5R	0.022 μ	±10, ±20	7.5	150	0.3±0.03	R
LMK063 BJ333□P-F				X5R	0.033 μ	±10, ±20	7.5	150	0.3±0.03	R	
LMK063 BJ473□P-F				X5R	0.047 μ	±10, ±20	7.5	150	0.3±0.03	R	
LMK063 BJ683□P-F		X5R		0.068 μ	±10, ±20	10	150	0.3±0.03	R		
LMK063 BJ104□P-F		X5R		0.1 μ	±10, ±20	10	150	0.3±0.03	R		
LMK063 BJ224□P-F		X5R		0.22 μ	±10, ±20	10	150	0.3±0.03	R		
LMK063BBJ474□PLF		X5R		0.47 μ	±10, ±20	10	150	0.3±0.09	R		
LMK063BBJ105MP-LF		X5R		1 μ	±20	10	150	0.3±0.09	R		
JMK063 BJ223□P-F		6.3	B	X5R	0.022 μ	±10, ±20	7.5	200	0.3±0.03	R	
JMK063 BJ333□P-F			X5R	0.033 μ	±10, ±20	7.5	150	0.3±0.03	R		
JMK063 BJ473□P-F			X5R	0.047 μ	±10, ±20	7.5	150	0.3±0.03	R		
JMK063 BJ683□P-F			X5R	0.068 μ	±10, ±20	10	150	0.3±0.03	R		
JMK063 BJ104□P-F			X5R	0.1 μ	±10, ±20	10	150	0.3±0.03	R		
JMK063 BJ224□P-F			X5R	0.22 μ	±10, ±20	10	150	0.3±0.03	R		
JMK063 BJ334MP-F			X5R	0.33 μ	±20	10	150	0.3±0.03	R		
JMK063 BJ474□P-F			X5R	0.47 μ	±10, ±20	10	150	0.3±0.03	R		
JMK063ABJ105□P-F		X5R	1 μ	±10, ±20	10	150	0.3±0.05	R			
AMK063 BJ224□P-F		4	X5R	0.22 μ	±10, ±20	10	150	0.3±0.03	R		
AMK063 BJ334MP-F			X5R	0.33 μ	±20	10	150	0.3±0.03	R		
AMK063 BJ474□P-F			X5R	0.47 μ	±10, ±20	10	150	0.3±0.03	R		
AMK063ABJ105□P-F			X5R	1 μ	±10, ±20	10	150	0.3±0.05	R		

[Temperature Characteristic C6 : X6S] 0.3mm thickness (P)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT		Soldering R:Reflow W:Wave
								Rated voltage x %	Thickness <sup>*3</sup> [mm]	
TMK063 C6104□P-F		25		X6S	0.1 μ	±10, ±20	10	150	0.3±0.03	R
EMK063AC6104□P-F		16		X6S	0.1 μ	±10, ±20	10	150	0.3±0.05	R
LMK063 C6333□P-F		10		X6S	0.033 μ	±10, ±20	7.5	150	0.3±0.03	R
LMK063 C6473□P-F				X6S	0.047 μ	±10, ±20	7.5	150	0.3±0.03	R
LMK063 C6683□P-F				X6S	0.068 μ	±10, ±20	10	150	0.3±0.03	R
LMK063 C6104□P-F				X6S	0.1 μ	±10, ±20	10	150	0.3±0.03	R
LMK063 C6224□P-F				X6S	0.22 μ	±10, ±20	10	150	0.3±0.03	R
LMK063BC6474□PLF				X6S	0.47 μ	±10, ±20	10	150	0.3±0.09	R
JMK063 C6223□P-F				X6S	0.022 μ	±10, ±20	7.5	200	0.3±0.03	R
JMK063 C6333□P-F			6.3		X6S	0.033 μ	±10, ±20	7.5	150	0.3±0.03
JMK063 C6473□P-F				X6S	0.047 μ	±10, ±20	7.5	150	0.3±0.03	R
JMK063 C6683□P-F				X6S	0.068 μ	±10, ±20	10	150	0.3±0.03	R
JMK063 C6104□P-F				X6S	0.1 μ	±10, ±20	10	150	0.3±0.03	R
JMK063 C6224□P-F				X6S	0.22 μ	±10, ±20	10	150	0.3±0.03	R
JMK063BC6474□P-F				X6S	0.47 μ	±10, ±20	10	150	0.3±0.09	R
JMK063BC6105MP-F				X6S	1 μ	±20	10	150	0.3±0.09	R
AMK063 C6474□P-F		4			X6S	0.47 μ	±10, ±20	10	150	0.3±0.03
AMK063AC6105□P-F					X6S	1 μ	±10, ±20	10	150	0.3±0.05

**[Temperature Characteristic B7 : X7R] 0.3mm thickness (P)**

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT	Thickness*3 [mm]	Soldering R:Reflow W:Wave	
							Rated voltage x %			
UMK063 B7101□P-F		50	X7R	100 p	±10, ±20	3.5	200	0.3±0.03	R	
UMK063 B7151□P-F			X7R	150 p	±10, ±20	3.5	200	0.3±0.03	R	
UMK063 B7221□P-F			X7R	220 p	±10, ±20	3.5	200	0.3±0.03	R	
UMK063 B7331□P-F			X7R	330 p	±10, ±20	3.5	200	0.3±0.03	R	
UMK063 B7471□P-F			X7R	470 p	±10, ±20	3.5	200	0.3±0.03	R	
UMK063 B7681□P-F			X7R	680 p	±10, ±20	3.5	200	0.3±0.03	R	
UMK063 B7102□P-F			X7R	1000 p	±10, ±20	3.5	200	0.3±0.03	R	
TMK063 B7152□P-F			25	X7R	1500 p	±10, ±20	5	200	0.3±0.03	R
TMK063 B7222□P-F		X7R		2200 p	±10, ±20	5	200	0.3±0.03	R	
TMK063 B7332□P-F		X7R		3300 p	±10, ±20	5	200	0.3±0.03	R	
TMK063 B7472□P-F		X7R		4700 p	±10, ±20	5	200	0.3±0.03	R	
TMK063 B7682□P-F		X7R		6800 p	±10, ±20	5	200	0.3±0.03	R	
TMK063 B7103□P-F		X7R		0.01 μ	±10, ±20	5	200	0.3±0.03	R	
EMK063 B7152□P-F		16		X7R	1500 p	±10, ±20	5	200	0.3±0.03	R
EMK063 B7222□P-F				X7R	2200 p	±10, ±20	5	200	0.3±0.03	R
EMK063 B7332□P-F			X7R	3300 p	±10, ±20	5	200	0.3±0.03	R	
EMK063 B7472□P-F			X7R	4700 p	±10, ±20	5	200	0.3±0.03	R	
EMK063 B7682□P-F			X7R	6800 p	±10, ±20	5	200	0.3±0.03	R	
EMK063 B7103□P-F			X7R	0.01 μ	±10, ±20	5	200	0.3±0.03	R	
EMK063 B7223□P-F			X7R	0.022 μ	±10, ±20	7.5	150	0.3±0.03	R	

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**[Temperature Characteristic BJ : B/X5R] 0.5mm thickness (V)**

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT	Thickness*3 [mm]	Soldering R:Reflow W:Wave	
							Rated voltage x %			
UMK105 BJ221□V-F		50	B X5R <sup>+1</sup>	220 p	±10, ±20	2.5	200	0.5±0.05	R	
UMK105 BJ331□V-F			B X5R <sup>+1</sup>	330 p	±10, ±20	2.5	200	0.5±0.05	R	
UMK105 BJ471□V-F			B X5R <sup>+1</sup>	470 p	±10, ±20	2.5	200	0.5±0.05	R	
UMK105 BJ681□V-F			B X5R <sup>+1</sup>	680 p	±10, ±20	2.5	200	0.5±0.05	R	
UMK105 BJ102□V-F			B X5R <sup>+1</sup>	1000 p	±10, ±20	2.5	200	0.5±0.05	R	
UMK105 BJ152□V-F			B X5R <sup>+1</sup>	1500 p	±10, ±20	2.5	200	0.5±0.05	R	
UMK105 BJ222□V-F			B X5R <sup>+1</sup>	2200 p	±10, ±20	2.5	200	0.5±0.05	R	
UMK105 BJ332□V-F			B X5R <sup>+1</sup>	3300 p	±10, ±20	2.5	200	0.5±0.05	R	
UMK105 BJ472□V-F			B X5R <sup>+1</sup>	4700 p	±10, ±20	2.5	200	0.5±0.05	R	
UMK105 BJ682□V-F			B X5R <sup>+1</sup>	6800 p	±10, ±20	2.5	150	0.5±0.05	R	
UMK105 BJ103□V-F			B X5R <sup>+1</sup>	0.01 μ	±10, ±20	3.5	200	0.5±0.05	R	
UMK105 BJ104□V-F			X5R	0.1 μ	±10, ±20	10	150	0.5±0.05	R	
UMK105 BJ224□V-F			X5R	0.22 μ	±10, ±20	10	150	0.5±0.05	R	
UMK105ABJ474□V-F			X5R	0.47 μ	±10, ±20	10	150	0.5±0.10	R	
UMK105CBJ105MV-F			X5R	1 μ	±20	10	150	0.5+0.20/-0	R	
GMK105 BJ104□V-F			35	B X5R	0.1 μ	±10, ±20	5	150	0.5±0.05	R
GMK105ABJ105□V-F				X5R	1 μ	±10, ±20	10	150	0.5±0.10	R
TMK105 BJ153□V-F				B X5R <sup>+1</sup>	0.015 μ	±10, ±20	3.5	200	0.5±0.05	R
TMK105 BJ223□V-F				B X5R <sup>+1</sup>	0.022 μ	±10, ±20	3.5	200	0.5±0.05	R
TMK105 BJ333□V-F				B X5R <sup>+1</sup>	0.033 μ	±10, ±20	3.5	150	0.5±0.05	R
TMK105 BJ473□V-F		B X5R <sup>+1</sup>		0.047 μ	±10, ±20	3.5	150	0.5±0.05	R	
TMK105 BJ104□V-F		B X5R		0.1 μ	±10, ±20	5	150	0.5±0.05	R	
TMK105 BJ224□V-F		X5R		0.22 μ	±10, ±20	10	200	0.5±0.05	R	
TMK105ABJ474□V-F		X5R	0.47 μ	±10, ±20	10	200	0.5±0.10	R		
TMK105 BJ105□V-F		X5R	1 μ	±10, ±20	10	150	0.5±0.05	R		
TMK105CBJ225□V-F		X5R	2.2 μ	±10, ±20	10	150	0.5+0.20/-0	R		
EMK105 BJ153□V-F		16	B X5R <sup>+1</sup>	0.015 μ	±10, ±20	3.5	200	0.5±0.05	R	
EMK105 BJ223□V-F			B X5R <sup>+1</sup>	0.022 μ	±10, ±20	3.5	200	0.5±0.05	R	
EMK105 BJ333□V-F			B X5R <sup>+1</sup>	0.033 μ	±10, ±20	3.5	200	0.5±0.05	R	
EMK105 BJ473□V-F			B X5R <sup>+1</sup>	0.047 μ	±10, ±20	3.5	200	0.5±0.05	R	
EMK105 BJ683□V-F			B X5R	0.068 μ	±10, ±20	5	200	0.5±0.05	R	
EMK105 BJ104□V-F			B X5R <sup>+1</sup>	0.1 μ	±10, ±20	5	150	0.5±0.05	R	
EMK105 BJ224□V-F			B X5R	0.22 μ	±10, ±20	5	150	0.5±0.05	R	
EMK105ABJ474□V-F			X5R	0.47 μ	±10, ±20	10	200	0.5±0.10	R	
EMK105 BJ105□V-F			X5R	1 μ	±10, ±20	10	150	0.5±0.05	R	
EMK105ABJ225□V-F			X5R	2.2 μ	±10, ±20	10	150	0.5±0.10	R	
LMK105 BJ104□V-F			10	B X5R	0.1 μ	±10, ±20	5	200	0.5±0.05	R
LMK105 BJ224□V-F				B X5R	0.22 μ	±10, ±20	5	150	0.5±0.05	R
LMK105 BJ474□V-F		X5R		0.47 μ	±10, ±20	10	150	0.5±0.05	R	
LMK105 BJ105□V-F		X5R		1 μ	±10, ±20	10	150	0.5±0.05	R	
LMK105 BJ225□V-F		X5R		2.2 μ	±10, ±20	10	150	0.5±0.05	R	
LMK105BBJ475MVL-F		X5R		4.7 μ	±20	10	150	0.5+0.15/-0.05	R	
JMK105 BJ224□V-F		B X5R		0.22 μ	±10, ±20	5	150	0.5±0.05	R	
JMK105 BJ474□V-F		X5R		0.47 μ	±10, ±20	10	150	0.5±0.05	R	
JMK105 BJ105□V-F		6.3	X5R	1 μ	±10, ±20	10	150	0.5±0.05	R	
JMK105 BJ225□V-F			X5R	2.2 μ	±10, ±20	10	150	0.5±0.05	R	
JMK105BBJ475MV-F	JMK105 BJ475MV-FD		X5R	4.7 μ	±20	10	150	0.5+0.15/-0.05	R	
JMK105CBJ106MV-F			X5R	10 μ	±20	10	150	0.5+0.20/-0	R	
AMK105ABJ475MV-F	AMK105 BJ475MV-F	4	X5R	4.7 μ	±20	10	150	0.5±0.10	R	
AMK105CBJ106MV-F			X5R	10 μ	±20	10	150	0.5+0.20/-0	R	

▶ This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our product specification sheets. For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our website (<http://www.ty-top.com/>).



## 【Temperature Characteristic BJ : B/X5R】 0.3mm thickness(P)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT		Soldering R:Reflow W:Wave	
							Rated voltage x %	Thickness <sup>*3</sup> [mm]		
UMK105 BJ104□P-F		50	X5R	0.1 μ	±10, ±20	10	150	0.3±0.03	R	
TMK105 BJ103□P-F		25	B	X5R	0.01 μ	±10, ±20	5	150	0.3±0.03	R
TMK105 BJ104□P-F			X5R	0.1 μ	±10, ±20	10	150	0.3±0.03	R	
TMK105 BJ224□P-F			X5R	0.22 μ	±10, ±20	10	150	0.3±0.03	R	
TMK105 BJ474□P-F			X5R	0.47 μ	±10, ±20	10	150	0.3±0.03	R	
EMK105 BJ474□P-F			X5R	0.47 μ	±10, ±20	10	150	0.3±0.03	R	
LMK105 BJ105□PLF		10	X5R	1 μ	±10, ±20	10	150	0.3±0.03	R	
JMK105 BJ105□P-F		6.3	X5R	1 μ	±10, ±20	10	150	0.3±0.03	R	
AMK105 BJ225MP-F		4	X5R	2.2 μ	±20	10	150	0.3±0.03	R	

## 【Temperature Characteristic BJ : X5R】 0.2mm thickness(C)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT		Soldering R:Reflow W:Wave
							Rated voltage x %	Thickness <sup>*3</sup> [mm]	
LMK105 BJ104□C-F		10	X5R	0.1 μ	±10, ±20	10	150	0.2±0.02	R
JMK105 BJ224□C-F		6.3	X5R	0.22 μ	±10, ±20	10	150	0.2±0.02	R
JMK105 BJ474□C-F			X5R	0.47 μ	±10, ±20	10	150	0.2±0.02	R
JMK105 BJ105MC-F			X5R	1 μ	±20	10	150	0.2±0.02	R

## 【Temperature Characteristic BJ : X5R】 0.18mm thickness(E)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT		Soldering R:Reflow W:Wave
							Rated voltage x %	Thickness <sup>*3</sup> [mm]	
LMK105 BJ104□E-R		10	X5R	0.1 μ	±10, ±20	10	150	0.18±0.02	R
JMK105 BJ224□E-R		6.3	X5R	0.22 μ	±10, ±20	10	150	0.18±0.02	R
JMK105 BJ474□E-R			X5R	0.47 μ	±10, ±20	10	150	0.18±0.02	R
AMK105 BJ105ME-R			X5R	1 μ	±20	10	150	0.18±0.02	R

## 【Temperature Characteristic BJ : X5R】 0.13mm thickness(H)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT		Soldering R:Reflow W:Wave
							Rated voltage x %	Thickness <sup>*3</sup> [mm]	
LMK105 BJ104MH-R		10	X5R	0.1 μ	±20	10	150	0.13±0.02	R
JMK105 BJ224MH-R		6.3	X5R	0.22 μ	±20	10	150	0.13±0.02	R
AMK105 BJ474MH-R		4	X5R	0.47 μ	±20	10	150	0.13±0.02	R

## 【Temperature Characteristic C6 : X6S】 0.5mm thickness(V)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT		Soldering R:Reflow W:Wave
							Rated voltage x %	Thickness <sup>*3</sup> [mm]	
GMK105CC6105MV-F		35	X6S	1 μ	±20	10	150	0.5+0.20/-0	R
TMK105AC6105□V-F		25	X6S	1 μ	±10, ±20	10	150	0.5±0.10	R
EMK105 C6105□V-F			X6S	1 μ	±10, ±20	10	150	0.5±0.05	R
EMK105CC6225MV-F		16	X6S	2.2 μ	±20	10	150	0.5+0.20/-0	R
LMK105 C6105□V-F			X6S	1 μ	±10, ±20	10	200	0.5±0.05	R
LMK105AC6225MV-F			X6S	2.2 μ	±20	10	150	0.5±0.10	R
JMK105 C6105□V-F		6.3	X6S	1 μ	±10, ±20	10	150	0.5±0.05	R
JMK105 C6225MV-F			X6S	2.2 μ	±20	10	150	0.5±0.05	R
JMK105BC6475MV-F			X6S	4.7 μ	±20	10	150	0.5+0.15/-0.05	R
AMK105BC6475MV-F			4	X6S	4.7 μ	±20	10	200	0.5+0.15/-0.05

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**[Temperature Characteristic B7 : X7R] 0.5mm thickness (V)**

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT		Thickness*3 [mm]	Soldering R:Reflow W:Wave
							Rated voltage x %			
UMK105 B7221□V-F		50	X7R	220 p	±10, ±20	2.5	200	0.5±0.05	R	
UMK105 B7331□V-F			X7R	330 p	±10, ±20	2.5	200	0.5±0.05	R	
UMK105 B7471□V-F			X7R	470 p	±10, ±20	2.5	200	0.5±0.05	R	
UMK105 B7681□V-F			X7R	680 p	±10, ±20	2.5	200	0.5±0.05	R	
UMK105 B7102□V-F			X7R	1000 p	±10, ±20	2.5	200	0.5±0.05	R	
UMK105 B7152□V-F			X7R	1500 p	±10, ±20	2.5	200	0.5±0.05	R	
UMK105 B7222□V-F			X7R	2200 p	±10, ±20	2.5	200	0.5±0.05	R	
UMK105 B7332□V-F			X7R	3300 p	±10, ±20	2.5	200	0.5±0.05	R	
UMK105 B7472□V-F			X7R	4700 p	±10, ±20	2.5	150	0.5±0.05	R	
UMK105 B7682□V-F			X7R	6800 p	±10, ±20	2.5	150	0.5±0.05	R	
UMK105 B7103□V-F			X7R	0.01 μ	±10, ±20	3.5	150	0.5±0.05	R	
UMK105 B7223□V-FR			X7R	0.022 μ	±10, ±20	10	200	0.5±0.05	R	
UMK105 B7473□V-FR			X7R	0.047 μ	±10, ±20	10	200	0.5±0.05	R	
UMK105 B7104□V-FR			X7R	0.1 μ	±10, ±20	10	150	0.5±0.05	R	
TMK105 B7152□V-F			25	X7R	1500 p	±10, ±20	2.5	200	0.5±0.05	R
TMK105 B7222□V-F				X7R	2200 p	±10, ±20	2.5	200	0.5±0.05	R
TMK105 B7332□V-F				X7R	3300 p	±10, ±20	2.5	200	0.5±0.05	R
TMK105 B7472□V-F				X7R	4700 p	±10, ±20	2.5	200	0.5±0.05	R
TMK105 B7682□V-F				X7R	6800 p	±10, ±20	2.5	200	0.5±0.05	R
TMK105 B7103□V-F				X7R	0.01 μ	±10, ±20	3.5	200	0.5±0.05	R
TMK105 B7223□V-F		X7R		0.022 μ	±10, ±20	3.5	150	0.5±0.05	R	
TMK105 B7473□V-F		X7R		0.047 μ	±10, ±20	3.5	150	0.5±0.05	R	
TMK105 B7104□V-FR		X7R		0.1 μ	±10, ±20	10	200	0.5±0.05	R	
TMK105 B7224□V-FR		X7R		0.22 μ	±10, ±20	10	150	0.5±0.05	R	
EMK105 B7223□V-F		16	X7R	0.022 μ	±10, ±20	3.5	200	0.5±0.05	R	
EMK105 B7473□V-F			X7R	0.047 μ	±10, ±20	3.5	200	0.5±0.05	R	
EMK105 B7104□V-F			X7R	0.1 μ	±10, ±20	5	150	0.5±0.05	R	
EMK105 B7224□V-FR			X7R	0.22 μ	±10, ±20	10	150	0.5±0.05	R	
LMK105 B7223□V-F			X7R	0.022 μ	±10, ±20	3.5	200	0.5±0.05	R	
LMK105 B7473□V-F			X7R	0.047 μ	±10, ±20	3.5	200	0.5±0.05	R	
LMK105 B7104□V-F		10	X7R	0.1 μ	±10, ±20	5	150	0.5±0.05	R	
LMK105 B7224□V-FR			X7R	0.22 μ	±10, ±20	10	150	0.5±0.05	R	
LMK105 B7474□V-F			X7R	0.47 μ	±10, ±20	10	150	0.5±0.05	R	
JMK105 B7224□V-F			6.3	X7R	0.22 μ	±10, ±20	5	150	0.5±0.05	R
JMK105 B7474□V-F		X7R		0.47 μ	±10, ±20	10	150	0.5±0.05	R	

● 107TYPE

**[Temperature Characteristic BJ : B/X5R] 0.8mm thickness (A)**

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT		Thickness*3 [mm]	Soldering R:Reflow W:Wave
							Rated voltage x %			
UMK107ABJ474□A-T	UMK107 BJ474□A-TD	50	X5R	0.47 μ	±10, ±20	10	150	0.8±0.15/-0.05	R	
UMK107 BJ105□A-T			X5R	1 μ	±10, ±20	10	150	0.8±0.10	R	
UMK107BBJ225□A-T			X5R	2.2 μ	±10, ±20	10	150	0.8±0.20/-0	R	
GMK107 BJ105□A-T		35	B X5R	1 μ	±10, ±20	5	150	0.8±0.10	R	
TMK107 BJ224□A-T			B X5R	0.22 μ	±10, ±20	3.5	200	0.8±0.10	R/W	
TMK107 BJ474□A-T		25	B X5R	0.47 μ	±10, ±20	3.5	150	0.8±0.10	R	
TMK107 BJ105□A-T			B X5R	1 μ	±10, ±20	5	150	0.8±0.10	R	
TMK107ABJ225□A-T	TMK107 BJ225□A-TD		X5R	2.2 μ	±10, ±20	10	150	0.8±0.15/-0.05	R	
TMK107BBJ475□A-T		16	X5R	4.7 μ	±10, ±20	10	150	0.8±0.20/-0	R	
TMK107BBJ106MA-T			X5R	10 μ	±20	10	150	0.8±0.20/-0	R	
EMK107 BJ224□A-T			B X5R <sup>1</sup>	0.22 μ	±10, ±20	3.5	200	0.8±0.10	R/W	
EMK107 BJ474□A-T			B X5R <sup>1</sup>	0.47 μ	±10, ±20	3.5	200	0.8±0.10	R	
EMK107 BJ105□A-T			B X5R <sup>1</sup>	1 μ	±10, ±20	5	150	0.8±0.10	R	
EMK107 BJ225□A-T			B X5R	2.2 μ	±10, ±20	10	150	0.8±0.10	R	
EMK107ABJ475□A-T	EMK107 BJ475□A-TD		X5R	4.7 μ	±10, ±20	10	150	0.8±0.15/-0.05	R	
EMK107BBJ106MA-T			X5R	10 μ	±20	10	150	0.8±0.20/-0	R	
LMK107 BJ224□A-T			B X5R <sup>1</sup>	0.22 μ	±10, ±20	3.5	200	0.8±0.10	R/W	
LMK107 BJ474□A-T			B X5R <sup>1</sup>	0.47 μ	±10, ±20	3.5	200	0.8±0.10	R	
LMK107 BJ105□A-T		10	B X5R <sup>1</sup>	1 μ	±10, ±20	5	200	0.8±0.10	R	
LMK107 BJ225□A-T			B X5R	2.2 μ	±10, ±20	10	150	0.8±0.10	R	
LMK107 BJ475□A-T			X5R	4.7 μ	±10, ±20	10	150	0.8±0.10	R	
LMK107BBJ106□ALTD	LMK107 BJ106□ALTD		X5R	10 μ	±10, ±20	10	150	0.8±0.20/-0	R	
LMK107BBJ226MA-T		6.3	X5R	22 μ	±20	10	150	0.8±0.20/-0	R	
JMK107 BJ225□A-T			B X5R	2.2 μ	±10, ±20	10	150	0.8±0.10	R	
JMK107 BJ475□A-T			X5R	4.7 μ	±10, ±20	10	150	0.8±0.10	R	
JMK107ABJ106□A-T	JMK107 BJ106□A-T		X5R	10 μ	±10, ±20	10	150	0.8±0.15/-0.05	R	
JMK107BBJ226MA-T			X5R	22 μ	±20	10	150	0.8±0.20/-0	R	
AMK107 BJ106MA-T			X5R	10 μ	±20	10	150	0.8±0.10	R	
AMK107BBJ226MA-T	AMK107 BJ226MA-T	4	X5R	22 μ	±20	10	150	0.8±0.20/-0	R	
			X5R	10 μ	±20	10	150	0.8±0.10	R	

**[Temperature Characteristic BJ : B/X5R] 0.45mm thickness (K)**

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT		Thickness*3 [mm]	Soldering R:Reflow W:Wave
							Rated voltage x %			
TMK107 BJ105□K-T		25	X5R	1 μ	±10, ±20	10	150	0.45±0.05	R	
EMK107 BJ105□K-T		16	X5R	1 μ	±10, ±20	10	150	0.45±0.05	R	
EMK107BBJ225□K-T			X5R	2.2 μ	±10, ±20	10	150	0.45±0.05	R	
LMK107 BJ105□K-T		10	B X5R	1 μ	±10, ±20	10	150	0.45±0.05	R	
LMK107 BJ225□K-T			X5R	2.2 μ	±10, ±20	10	150	0.45±0.05	R	
LMK107BBJ475MKLT	LMK107 BJ475MKLTD		X5R	4.7 μ	±20	10	150	0.45±0.05	R	
JMK107 BJ105□K-T		6.3	B X5R	1 μ	±10, ±20	10	150	0.45±0.05	R	
JMK107 BJ225□K-T			X5R	2.2 μ	±10, ±20	10	150	0.45±0.05	R	
JMK107 BJ475MK-T			X5R	4.7 μ	±20	10	150	0.45±0.05	R	
JMK107BBJ106MK-TT			X5R	10 μ	±20	10	150	0.45±0.05	R	
AMK107BBJ106MK-T*2		4	X5R	10 μ	±20	10	150	0.45±0.05	R	

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**(Temperature Characteristic C6 : X6S) 0.8mm thickness (A)**

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT		Thickness <sup>*3</sup> [mm]	Soldering R:Reflow W:Wave
							Rated voltage x %			
TMK107BC6225□A-T		25	X6S	2.2 μ	±10, ±20	10	150		0.8+0.20/-0	R
EMK107 C6105□A-T			X6S	1 μ	±10, ±20	5	150		0.8±0.10	R
EMK107BC6225□A-T		16	X6S	2.2 μ	±10, ±20	10	150		0.8+0.20/-0	R
EMK107BC6475□A-T			X6S	4.7 μ	±10, ±20	10	150		0.8+0.20/-0	R
EMK107BC6106MA-T			X6S	10 μ	±20	10	150		0.8+0.20/-0	R
LMK107 C6105□A-T			X6S	1 μ	±10, ±20	5	150		0.8±0.10	R
LMK107AC6475□A-T		10	X6S	4.7 μ	±10, ±20	10	150		0.8+0.15/-0.05	R
LMK107BC6106MA-T			X6S	10 μ	±20	10	150		0.8+0.20/-0	R
JMK107 C6105□A-T			X6S	1 μ	±10, ±20	5	150		0.8±0.10	R
JMK107 C6475□A-T		6.3	X6S	4.7 μ	±10, ±20	10	150		0.8±0.10	R
JMK107BC6106MA-T			X6S	10 μ	±20	10	150		0.8+0.20/-0	R
JMK107BC6226MA-T			X6S	22 μ	±20	10	150		0.8+0.20/-0	R
AMK107AC6106MA-T			X6S	10 μ	±20	10	150		0.8+0.15/-0.05	R
AMK107BC6226MA-T		4	X6S	22 μ	±20	10	150		0.8+0.20/-0	R
			X6S	22 μ	±20	10	150		0.8+0.20/-0	R

**(Temperature Characteristic B7 : X7R) 0.8mm thickness (A)**

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT		Thickness <sup>*3</sup> [mm]	Soldering R:Reflow W:Wave
							Rated voltage x %			
UMK107 B7224□A-TR		50	X7R	0.22 μ	±10, ±20	10	150		0.8±0.10	R
UMK107 B7474□A-TR			X7R	0.47 μ	±10, ±20	10	150		0.8±0.10	R
UMK107AB7105□A-T			X7R	1 μ	±10, ±20	10	150		0.8+0.15/-0.05	R
TMK107 B7474□A-TR		25	X7R	0.47 μ	±10, ±20	10	150		0.8±0.10	R
TMK107 B7105□A-T			X7R	1 μ	±10, ±20	10	150		0.8±0.10	R
EMK107 B7224□A-T		16	X7R	0.22 μ	±10, ±20	3.5	150		0.8±0.10	R/W
EMK107 B7474□A-T			X7R	0.47 μ	±10, ±20	3.5	150		0.8±0.10	R
EMK107 B7105□A-T			X7R	1 μ	±10, ±20	5	150		0.8±0.10	R
EMK107BB7225□A-T			X7R	2.2 μ	±10, ±20	10	150		0.8+0.20/-0	R
LMK107 B7224□A-T		10	X7R	0.22 μ	±10, ±20	3.5	200		0.8±0.10	R/W
LMK107 B7474□A-T			X7R	0.47 μ	±10, ±20	3.5	200		0.8±0.10	R
LMK107 B7105□A-T			X7R	1 μ	±10, ±20	5	150		0.8±0.10	R
LMK107 B7225□A-TR		6.3	X7R	2.2 μ	±10, ±20	10	150		0.8±0.10	R
JMK107 B7224□A-T			X7R	0.22 μ	±10, ±20	3.5	200		0.8±0.10	R/W
JMK107 B7474□A-T			X7R	0.47 μ	±10, ±20	3.5	200		0.8±0.10	R
JMK107 B7105□A-T			X7R	1 μ	±10, ±20	5	150		0.8±0.10	R
JMK107 B7225□A-TR		6.3	X7R	2.2 μ	±10, ±20	10	200		0.8±0.10	R
JMK107BB7475□A-T			X7R	4.7 μ	±10, ±20	10	150		0.8+0.20/-0	R

● 212TYPE

**(Temperature Characteristic BJ : B/X5R) 1.25mm thickness (G)**

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT		Thickness <sup>*3</sup> [mm]	Soldering R:Reflow W:Wave
							Rated voltage x %			
UMK212 BJ104□G-T		50	B X5R <sup>-1</sup>	0.1 μ	±10, ±20	3.5	200		1.25±0.10	R/W
UMK212 BJ224□G-T			B X5R <sup>-1</sup>	0.22 μ	±10, ±20	3.5	200		1.25±0.10	R/W
UMK212 BJ474□G-T			B X5R <sup>-1</sup>	0.47 μ	±10, ±20	3.5	150		1.25±0.10	R/W
UMK212 BJ105□G-T			B X5R	1 μ	±10, ±20	5	150		1.25±0.10	R/W
UMK212ABJ225□G-T			B X5R	2.2 μ	±10, ±20	10	150		1.25+0.15/-0.05	R
UMK212BBJ475□G-T		35	X5R	4.7 μ	±10, ±20	10	150		1.25+0.20/-0	R
GMK212BBJ106□G-T			X5R	10 μ	±10, ±20	10	150		1.25+0.20/-0	R
TMK212 BJ225□G-T			B X5R	2.2 μ	±10, ±20	5	150		1.25±0.10	R
TMK212ABJ475□G-T	TMK212 BJ475□G-T		X5R	4.7 μ	±10, ±20	10	150		1.25+0.15/-0.05	R
TMK212BBJ106MG-T		25	X5R	10 μ	±20	10	150		1.25+0.20/-0	R
TMK212BBJ226MG-TT			X5R	22 μ	±20	10	150		1.25+0.20/-0	R
EMK212 BJ225□G-T		16	B X5R <sup>-1</sup>	2.2 μ	±10, ±20	5	200		1.25±0.10	R
EMK212ABJ475□G-T	EMK212 BJ475□G-T		B X5R <sup>-1</sup>	4.7 μ	±10, ±20	5	150		1.25+0.15/-0.05	R
EMK212ABJ106□G-T	EMK212 BJ106□G-T		X5R	10 μ	±10, ±20	10	150		1.25+0.15/-0.05	R
EMK212BBJ226MG-T			X5R	22 μ	±20	10	150		1.25+0.20/-0	R
LMK212 BJ225□G-T		10	B X5R <sup>-1</sup>	2.2 μ	±10, ±20	5	200		1.25±0.10	R
LMK212ABJ475□G-T	LMK212 BJ475□G-T		B X5R <sup>-1</sup>	4.7 μ	±10, ±20	5	200		1.25+0.15/-0.05	R
LMK212ABJ106□G-T	LMK212 BJ106□G-T		X5R	10 μ	±10, ±20	10	200		1.25+0.15/-0.05	R
LMK212BBJ226MG-T	LMK212 BJ226MG-T		X5R	22 μ	±20	10	150		1.25+0.20/-0	R
LMK212BBJ476MG-T		6.3	X5R	47 μ	±20	10	150		1.25+0.20/-0	R
JMK212ABJ475□G-T	JMK212 BJ475□G-T		B X5R	4.7 μ	±10, ±20	5	200		1.25+0.15/-0.05	R
JMK212ABJ106□G-T	JMK212 BJ106□G-T		X5R <sup>-1</sup>	10 μ	±10, ±20	10	200		1.25+0.15/-0.05	R
JMK212ABJ226MG-T	JMK212 BJ226MG-T	6.3	X5R	22 μ	±20	10	150		1.25+0.15/-0.05	R
JMK212BBJ476MG-T	JMK212 BJ476MG-T		X5R	47 μ	±20	10	150		1.25+0.20/-0	R
PMK212BBJ107MG-T		2.5	X5R	100 μ	±20	10	150		1.25+0.20/-0	R

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## 【Temperature Characteristic BJ : B/X5R】 0.85mm thickness (D)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT	Thickness*3 [mm]	Soldering R:Reflow W:Wave
							Rated voltage x %		
UMK212ABJ105□D-T	UMK212 BJ105□D-TD	50	X5R	1 μ	±10, ±20	10	150	0.85±0.10	R
UMK212BBJ225□D-T			X5R	2.2 μ	±10, ±20	10	150	0.85±0.10	R
GMK212BBJ475□D-T		35	X5R	4.7 μ	±10, ±20	10	150	0.85±0.10	R
TMK212 BJ474□D-T			B X5R	0.47 μ	±10, ±20	3.5	200	0.85±0.10	R
TMK212 BJ105□D-T		25	B X5R	1 μ	±10, ±20	5	200	0.85±0.10	R
TMK212ABJ225□D-T	TMK212 BJ225□D-T		B X5R	2.2 μ	±10, ±20	5	150	0.85±0.10	R
TMK212BBJ475□D-T	TMK212 BJ475□D-TD		X5R	4.7 μ	±10, ±20	10	150	0.85±0.10	R
TMK212BBJ106□D-T			X5R	10 μ	±10, ±20	10	150	0.85±0.10	R
EMK212 BJ105□D-T			B X5R <sup>1</sup>	1 μ	±10, ±20	5	200	0.85±0.10	R
EMK212ABJ225□D-T	EMK212 BJ225□D-T		B X5R <sup>1</sup>	2.2 μ	±10, ±20	5	200	0.85±0.10	R
EMK212 BJ475□D-T		16	B X5R	4.7 μ	±10, ±20	10	150	0.85±0.10	R
EMK212ABJ106□D-T	EMK212 BJ106□D-TD		X5R	10 μ	±10, ±20	10	150	0.85±0.10	R
LMK212 BJ105□D-T			B X5R <sup>1</sup>	1 μ	±10, ±20	3.5	200	0.85±0.10	R
LMK212 BJ225□D-T			B X5R <sup>1</sup>	2.2 μ	±10, ±20	5	200	0.85±0.10	R
LMK212ABJ106□D-T	LMK212 BJ106□D-T		X5R	10 μ	±10, ±20	10	150	0.85±0.10	R
LMK212BBJ226MD-T			X5R	2.2 μ	±20	10	150	0.85±0.10	R
JMK212ABJ106□D-T	JMK212 BJ106□D-T	6.3	X5R	10 μ	±10, ±20	10	200	0.85±0.10	R
JMK212ABJ226MD-T	JMK212 BJ226MD-T		X5R	2.2 μ	±20	10	150	0.85±0.10	R
AMK212BBJ476MD-T		4	X5R	4.7 μ	±20	10	150	0.85±0.10	R

## 【Temperature Characteristic BJ : X5R】 0.45mm thickness (K)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT	Thickness*3 [mm]	Soldering R:Reflow W:Wave
							Rated voltage x %		
TMK212BBJ225□K-T		25	X5R	2.2 μ	±10, ±20	10	150	0.45±0.05	R
EMK212BBJ475□K-T		16	X5R	4.7 μ	±10, ±20	10	150	0.45±0.05	R
LMK212ABJ475□K-T	LMK212 BJ475□K-T	10	X5R	4.7 μ	±10, ±20	10	150	0.45±0.05	R
JMK212ABJ475□K-T	JMK212 BJ475□K-T	6.3	X5R	4.7 μ	±10, ±20	10	150	0.45±0.05	R
JMK212ABJ106MK-T *2	JMK212 BJ106MK-T		X5R	10 μ	±20	10	150	0.45±0.05	R

## 【Temperature Characteristic C6 : X6S】 1.25mm thickness (G)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT	Thickness*3 [mm]	Soldering R:Reflow W:Wave
							Rated voltage x %		
EMK212BC6226MG-TT		16	X6S	22 μ	±20	10	150	1.25+0.20/-0	R
LMK212BC6226MG-T		10	X6S	22 μ	±20	10	150	1.25+0.20/-0	R
JMK212BC6226MG-T		6.3	X6S	22 μ	±20	10	150	1.25+0.20/-0	R
JMK212BC6476MG-T			X6S	4.7 μ	±20	10	150	1.25+0.20/-0	R
AMK212AC6226MG-T		4	X6S	22 μ	±20	10	150	1.25+0.15/-0.05	R
AMK212BC6476MG-T			X6S	4.7 μ	±20	10	150	1.25+0.20/-0	R

## 【Temperature Characteristic C6 : X6S】 0.85mm thickness (D)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT	Thickness*3 [mm]	Soldering R:Reflow W:Wave
							Rated voltage x %		
LMK212AC6106□D-T		10	X6S	10 μ	±10, ±20	10	150	0.85±0.10	R
AMK212BC6226MD-T		4	X6S	22 μ	±20	10	150	0.85±0.10	R

## 【Temperature Characteristic B7 : X7R】 1.25mm thickness (G)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT	Thickness*3 [mm]	Soldering R:Reflow W:Wave	
							Rated voltage x %			
UMK212 B7104□G-T		50	X7R	0.1 μ	±10, ±20	3.5	200	1.25±0.10	R/W	
UMK212 B7224□G-T			X7R	0.22 μ	±10, ±20	3.5	150	1.25±0.10	R/W	
UMK212 B7474□G-T			X7R	0.47 μ	±10, ±20	3.5	150	1.25±0.10	R/W	
UMK212 B7105□G-T			X7R	1 μ	±10, ±20	10	150	1.25±0.10	R/W	
UMK212BB7225□G-T			X7R	2.2 μ	±10, ±20	10	150	1.25+0.20/-0	R	
GMK212 B7105□G-T			35	X7R	1 μ	±10, ±20	3.5	150	1.25±0.10	R/W
TMK212 B7105□G-T		25	X7R	1 μ	±10, ±20	3.5	150	1.25±0.10	R	
TMK212 B7225□G-TR			X7R	2.2 μ	±10, ±20	10	150	1.25±0.10	R	
TMK212AB7475□G-T	TMK212 B7475□G-T		X7R	4.7 μ	±10, ±20	10	150	1.25+0.15/-0.05	R	
EMK212 B7105□G-T			X7R	1 μ	±10, ±20	3.5	200	1.25±0.10	R/W	
EMK212 B7225□G-T		16	X7R	2.2 μ	±10, ±20	10	150	1.25±0.10	R	
EMK212 B7475□G-T			X7R	4.7 μ	±10, ±20	10	150	1.25±0.10	R	
EMK212BB7106MG-T			X7R	10 μ	±20	10	150	1.25+0.20/-0	R	
LMK212 B7105□G-T			X7R	1 μ	±10, ±20	3.5	200	1.25±0.10	R/W	
LMK212 B7225□G-T			10	X7R	2.2 μ	±10, ±20	5	200	1.25±0.10	R
LMK212 B7475□G-T				X7R	4.7 μ	±10, ±20	10	150	1.25±0.10	R
LMK212AB7106□G-T	LMK212 B7106□G-TD	6.3	X7R	10 μ	±10, ±20	10	150	1.25+0.15/-0.05	R	
JMK212AB7106□G-T	JMK212 B7106□G-T		X7R	10 μ	±10, ±20	10	150	1.25+0.15/-0.05	R	

## 【Temperature Characteristic B7 : X7R】 0.85mm thickness (D)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT	Thickness*3 [mm]	Soldering R:Reflow W:Wave
							Rated voltage x %		
UMK212AB7104□D-T		50	X7R	0.1 μ	±10, ±20	10	150	0.85±0.10	R
UMK212AB7224□D-T			X7R	0.22 μ	±10, ±20	10	150	0.85±0.10	R
UMK212AB7474□D-T			X7R	0.47 μ	±10, ±20	10	150	0.85±0.10	R
UMK212AB7105□D-T			X7R	1 μ	±10, ±20	10	150	0.85±0.10	R
TMK212AB7225□D-TR		25	X7R	2.2 μ	±10, ±20	10	150	0.85±0.10	R
EMK212 B7474□D-T			X7R	0.47 μ	±10, ±20	3.5	200	0.85±0.10	R/W
EMK212 B7105□D-T		16	X7R	1 μ	±10, ±20	5	200	0.85±0.10	R
EMK212AB7225□D-T	EMK212 B7225□D-T		X7R	2.2 μ	±10, ±20	5	150	0.85±0.10	R
EMK212BB7475□D-T			X7R	4.7 μ	±10, ±20	10	150	0.85±0.10	R
LMK212 B7105□D-T			X7R	1 μ	±10, ±20	3.5	200	0.85±0.10	R
LMK212AB7225□D-T	LMK212 B7225□D-T	10	X7R	2.2 μ	±10, ±20	5	200	0.85±0.10	R
LMK212AB7475□D-TR	LMK212 B7475□D-TR		X7R	4.7 μ	±10, ±20	10	150	0.85±0.10	R



## ● 316TYPE

[Temperature Characteristic BJ : B/X5R] 1.6mm thickness(L)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT	Thickness <sup>*3</sup> [mm]	Soldering R:Reflow W:Wave
								Rated voltage x %		
UMK316 BJ105□L-T		50	B	X5R <sup>+</sup>	1 μ	±10, ±20	3.5	200	1.6±0.20	R
UMK316 BJ225□L-T				X5R	2.2 μ	±10, ±20	10	150	1.6±0.20	R
UMK316 BJ475□L-T				X5R	4.7 μ	±10, ±20	10	150	1.6±0.20	R
UMK316BBJ106□L-T				X5R	10 μ	±10, ±20	10	150	1.6±0.30	R
TMK316 BJ225□L-T		25	B	X5R <sup>+</sup>	2.2 μ	±10, ±20	3.5	200	1.6±0.20	R
TMK316 BJ475□L-T				X5R	4.7 μ	±10, ±20	5	150	1.6±0.20	R
TMK316 BJ106□L-T				X5R <sup>+</sup>	10 μ	±10, ±20	5	150	1.6±0.20	R
TMK316BBJ226ML-T				X5R	22 μ	±20	10	150	1.6±0.30	R
EMK316 BJ225□L-T		16	B	X5R <sup>+</sup>	2.2 μ	±10, ±20	3.5	200	1.6±0.20	R/W
EMK316 BJ475□L-T				X5R	4.7 μ	±10, ±20	5	200	1.6±0.20	R
EMK316 BJ106□L-T				X5R <sup>+</sup>	10 μ	±10, ±20	5	150	1.6±0.20	R
EMK316ABJ226□L-T	EMK316 BJ226□L-T			X5R	22 μ	±10, ±20	10	150	1.6±0.20	R
LMK316 BJ106□L-T		10	B	X5R <sup>+</sup>	10 μ	±10, ±20	5	200	1.6±0.20	R
LMK316ABJ226□L-T	LMK316 BJ226□L-T			X5R	22 μ	±10, ±20	10	150	1.6±0.20	R
LMK316ABJ476ML-T	LMK316 BJ476ML-T			X5R	47 μ	±20	10	150	1.6±0.20	R
LMK316BBJ107ML-T				X5R	100 μ	±20	10	150	1.6±0.30	R
JMK316 BJ106□L-T		6.3	B	X5R <sup>+</sup>	10 μ	±10, ±20	5	200	1.6±0.20	R
JMK316ABJ226□L-T	JMK316 BJ226□L-T			X5R	22 μ	±10, ±20	10	200	1.6±0.20	R
JMK316ABJ476ML-T	JMK316 BJ476ML-T			X5R	47 μ	±20	10	200	1.6±0.20	R
JMK316ABJ107ML-T	JMK316 BJ107ML-T			X5R	100 μ	±20	10	150	1.6±0.20	R
AMK316ABJ107ML-T	AMK316 BJ107ML-T	4		X5R	100 μ	±20	10	150	1.6±0.20	R
AMK316BBJ157ML-T				X5R	150 μ	±20	10	150	1.6±0.30	R
PMK316BBJ227ML-T		2.5		X5R	220 μ	±20	10	150	1.6±0.30	R

[Temperature Characteristic BJ : B/X5R] 0.85mm thickness(D)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT	Thickness <sup>*3</sup> [mm]	Soldering R:Reflow W:Wave
								Rated voltage x %		
UMK316 BJ105□D-T		50	B	X5R	1 μ	±10, ±20	3.5	150	0.85±0.10	R
UMK316 BJ225□D-T				X5R	2.2 μ	±10, ±20	3.5	150	0.85±0.10	R
UMK316ABJ475□D-T	UMK316 BJ475□D-T			X5R	4.7 μ	±10, ±20	10	150	0.85±0.10	R
TMK316 BJ105□D-T				X5R	1 μ	±10, ±20	3.5	200	0.85±0.10	R
TMK316 BJ225□D-T		25	B	X5R	2.2 μ	±10, ±20	3.5	150	0.85±0.10	R
TMK316 BJ475□D-T				X5R	4.7 μ	±10, ±20	5	150	0.85±0.10	R
TMK316ABJ106□D-T	TMK316 BJ106□D-TD			X5R	10 μ	±10, ±20	10	150	0.85±0.10	R
EMK316 BJ225□D-T				X5R	2.2 μ	±10, ±20	3.5	200	0.85±0.10	R
EMK316 BJ475□D-T		16	B	X5R	4.7 μ	±10, ±20	5	200	0.85±0.10	R
EMK316 BJ106□D-T				X5R	10 μ	±10, ±20	10	150	0.85±0.10	R
EMK316ABJ226MD-T	EMK316 BJ226MD-T			X5R	22 μ	±20	10	150	0.85±0.10	R
LMK316 BJ475□D-T				X5R	4.7 μ	±10, ±20	5	200	0.85±0.10	R
LMK316 BJ106□D-T		10	B	X5R	10 μ	±10, ±20	10	200	0.85±0.10	R
LMK316ABJ226MD-T	LMK316 BJ226MD-T			X5R	22 μ	±20	10	150	0.85±0.10	R
JMK316 BJ106□D-T				X5R	10 μ	±10, ±20	10	200	0.85±0.10	R
JMK316ABJ226MD-T	JMK316 BJ226MD-T			X5R	22 μ	±20	10	150	0.85±0.10	R
JMK316ABJ476MD-T	JMK316 BJ476MD-T	6.3		X5R	47 μ	±20	10	150	0.85±0.10	R

[Temperature Characteristic C6 : X6S] 1.6mm thickness(L)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT	Thickness <sup>*3</sup> [mm]	Soldering R:Reflow W:Wave
								Rated voltage x %		
EMK316BC6226ML-T		16		X6S	22 μ	±20	10	150	1.6±0.30	R
JMK316AC6476ML-T		6.3		X6S	47 μ	±20	10	150	1.6±0.20	R
JMK316BC6107ML-T				X6S	100 μ	±20	10	150	1.6±0.30	R
AMK316AC6476ML-T		4		X6S	47 μ	±20	10	200	1.6±0.20	R
AMK316AC6107ML-T				X6S	100 μ	±20	10	150	1.6±0.20	R

[Temperature Characteristic C7 : X7S] 1.6mm thickness(L)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT	Thickness <sup>*3</sup> [mm]	Soldering R:Reflow W:Wave
								Rated voltage x %		
AMK316AC7476ML-T		4		X7S	47 μ	±20	10	150	1.6±0.20	R

[Temperature Characteristic B7 : X7R] 1.6mm thickness(L)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT	Thickness <sup>*3</sup> [mm]	Soldering R:Reflow W:Wave
								Rated voltage x %		
UMK316 B7224□L-T		50		X7R	0.22 μ	±10, ±20	2.5	200	1.6±0.20	R/W
UMK316 B7474□L-T				X7R	0.47 μ	±10, ±20	3.5	200	1.6±0.20	R/W
UMK316 B7105□L-T				X7R	1 μ	±10, ±20	3.5	200	1.6±0.20	R
UMK316 B7225□L-T				X7R	2.2 μ	±10, ±20	10	150	1.6±0.20	R
UMK316AB7475□L-T	UMK316 B7475□L-T	35		X7R	4.7 μ	±10, ±20	10	150	1.6±0.20	R
GMK316AB7106□L-TR				X7R	10 μ	±10, ±20	10	150	1.6±0.20	R
TMK316 B7105□L-T				X7R	1 μ	±10, ±20	3.5	200	1.6±0.20	R/W
TMK316 B7225□L-T				X7R	2.2 μ	±10, ±20	3.5	200	1.6±0.20	R
TMK316AB7475□L-T	TMK316 B7475□L-T	25		X7R	4.7 μ	±10, ±20	10	200	1.6±0.20	R
TMK316AB7106□L-T	TMK316 B7106□L-TD			X7R	10 μ	±10, ±20	10	150	1.6±0.20	R
EMK316 B7225□L-T				X7R	2.2 μ	±10, ±20	3.5	200	1.6±0.20	R/W
EMK316 B7475□L-T				X7R	4.7 μ	±10, ±20	5	200	1.6±0.20	R
EMK316AB7106□L-T	EMK316 B7106□L-TD	16		X7R	10 μ	±10, ±20	10	200	1.6±0.20	R
EMK316BB7226ML-T				X7R	22 μ	±20	10	150	1.6±0.30	R
LMK316 B7225□L-T				X7R	2.2 μ	±10, ±20	3.5	200	1.6±0.20	R/W
LMK316 B7475□L-T				X7R	4.7 μ	±10, ±20	5	200	1.6±0.20	R
LMK316AB7106□L-T	LMK316 B7106□L-TD	10		X7R	10 μ	±10, ±20	10	200	1.6±0.20	R
LMK316AB7226□L-TR	LMK316 B7226□L-TD			X7R	22 μ	±10, ±20	10	150	1.6±0.20	R
JMK316 B7106□L-T				X7R	10 μ	±10, ±20	5	200	1.6±0.20	R

## [Temperature Characteristic B7 : X7R] 0.85mm thickness (D)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT		Thickness*3 [mm]	Soldering R:Reflow W:Wave
								Rated voltage x %			
UMK316 B7225□D-T		50		X7R	2.2 μ	±10, ±20	10	150		0.85±0.10	R
TMK316AB7475□D-T		25		X7R	4.7 μ	±10, ±20	10	150		0.85±0.10	R
LMK316AB7106MD-T		10		X7R	10 μ	±20	10	150		0.85±0.10	R

## ● 325TYPE

## [Temperature Characteristic BJ : B/X5R] 2.5mm thickness (M)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT		Thickness*3 [mm]	Soldering R:Reflow W:Wave
								Rated voltage x %			
UMK325 BJ475□IM-P		50		X5R	4.7 μ	±10, ±20	5	150		2.5±0.20	R
UMK325 BJ106□IM-P				X5R	10 μ	±10, ±20	5	150		2.5±0.20	R
GMK325 BJ226MM-P		35		X5R	22 μ	±20	5	150		2.5±0.20	R
TMK325 BJ106□IM-P				B	X5R <sup>*1</sup>	10 μ	±10, ±20	3.5	150		2.5±0.20
TMK325 BJ226□IM-P		25		X5R	22 μ	±10, ±20	5	150		2.5±0.20	R
TMK325ABJ476MM-P					X5R	47 μ	±20	10	150		2.5±0.30
EMK325 BJ226□IM-P		16		X5R	22 μ	±10, ±20	5	150		2.5±0.20	R
EMK325 BJ476MM-P					X5R	47 μ	±20	10	150		2.5±0.20
EMK325ABJ107MM-P		10		X5R	100 μ	±20	10	150		2.5±0.30	R
LMK325 BJ226□IM-P				B	X5R	22 μ	±10, ±20	5	200		2.5±0.20
LMK325 BJ476MM-P		10		X5R	47 μ	±20	10	150		2.5±0.20	R
LMK325ABJ107MM-P	LMK325 BJ107MM-P				X5R	100 μ	±20	10	150		2.5±0.30
LMK325ABJ227MM-PE		6.3		X5R	220 μ	±20	10	150		2.5±0.30	R
JMK325 BJ476MM-P					X5R	47 μ	±20	10	150		2.5±0.20
JMK325ABJ107MM-P	JMK325 BJ107MM-P	6.3		X5R	100 μ	±20	10	150		2.5±0.30	R
JMK325ABJ157MM-P					X5R	150 μ	±20	10	150		2.5±0.30
JMK325ABJ227MM-P		4		X5R	220 μ	±20	10	150		2.5±0.30	R
JMK325ABJ337MM-P					X5R	330 μ	±20	10	150		2.5±0.30
AMK325ABJ157MM-P		4		X5R	150 μ	±20	10	150		2.5±0.30	R
AMK325ABJ227MM-P					X5R	220 μ	±20	10	150		2.5±0.30
AMK325ABJ337MM-P				X5R	330 μ	±20	10	150		2.5±0.30	R

## [Temperature Characteristic BJ : B/X5R] 1.9mm thickness (Y,N)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT		Thickness*3 [mm]	Soldering R:Reflow W:Wave
								Rated voltage x %			
UMK325 BJ475□IN-T		50		X5R	4.7 μ	±10, ±20	10	150		1.9±0.20	R
GMK325 BJ225□IN-T				B	X5R	2.2 μ	±10, ±20	3.5	200		1.9±0.20
GMK325 BJ475□IN-T		35		X5R	4.7 μ	±10, ±20	10	150		1.9±0.20	R
GMK325 BJ106□IN-T				B	X5R	10 μ	±10, ±20	5	150		1.9±0.20
TMK325 BJ335MN-T		25		X5R <sup>*1</sup>	3.3 μ	±20	3.5	200		1.9±0.20	R
TMK325 BJ475□IN-T				B	X5R <sup>*1</sup>	4.7 μ	±10, ±20	3.5	200		1.9±0.20
TMK325 BJ106□IN-T		16		X5R	10 μ	±10, ±20	5	200		1.9±0.20	R
EMK325 BJ475□IN-T				B	X5R <sup>*1</sup>	4.7 μ	±10, ±20	3.5	200		1.9±0.20
EMK325 BJ106□IN-T		10		X5R	10 μ	±10, ±20	3.5	200		1.9±0.20	R
EMK325 BJ476MY-T					X5R	47 μ	±20	10	150		1.9±0.1/-0.2
LMK325 BJ226MY-T		10		X5R	22 μ	±20	5	150		1.9±0.1/-0.2	R
LMK325 BJ106□IN-T				B	X5R	10 μ	±10, ±20	3.5	200		1.9±0.20
JMK325 BJ226MY-T		6.3		X5R	22 μ	±20	5	200		1.9±0.1/-0.2	R
JMK325 BJ107MY-T					X5R	100 μ	±20	10	150		1.9±0.1/-0.2
JMK325 BJ476MN-T				X5R	47 μ	±20	10	150		1.9±0.20	R

## [Temperature Characteristic BJ : B/X5R] 0.85mm thickness (D)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT		Thickness*3 [mm]	Soldering R:Reflow W:Wave
								Rated voltage x %			
TMK325 BJ106□D-T		25		X5R	10 μ	±10, ±20	5	150		0.85±0.10	R
EMK325 BJ106□D-T				B	X5R	10 μ	±10, ±20	5	150		0.85±0.10
EMK325 BJ226MD-T		16		X5R	22 μ	±20	10	150		0.85±0.10	R
LMK325 BJ335□D-T				B	X5R	3.3 μ	±10, ±20	3.5	200		0.85±0.10
LMK325 BJ475□D-T		10		X5R	4.7 μ	±10, ±20	5	200		0.85±0.10	R
LMK325 BJ106□D-T				B	X5R	10 μ	±10, ±20	5	150		0.85±0.10

## [Temperature Characteristic C6 : X6S] 2.5mm thickness (M)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT		Thickness*3 [mm]	Soldering R:Reflow W:Wave
								Rated voltage x %			
EMK325AC6476MM-P		16		X6S	47 μ	±20	10	150		2.5±0.30	R
LMK325AC6107MM-P		10		X6S	100 μ	±20	10	150		2.5±0.30	R
JMK325AC6227MM-PE		6.3		X6S	220 μ	±20	10	150		2.5±0.30	R
JMK325AC6107MM-P					X6S	100 μ	±20	10	150		2.5±0.30
AMK325AC6157MM-P		4		X6S	150 μ	±20	10	150		2.5±0.30	R
AMK325AC6227MM-P					X6S	220 μ	±20	10	150		2.5±0.30
AMK325AC6337MM-P		2.5		X6S	330 μ	±20	10	150		2.5±0.30	R
PMK325AC6337MM-P					X6S	330 μ	±20	10	150		2.5±0.30

## [Temperature Characteristic C7 : X7S] 2.5mm thickness (M)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance [%]	tan δ [%]	HTLT		Thickness*3 [mm]	Soldering R:Reflow W:Wave
								Rated voltage x %			
JMK325AC7107MM-P		6.3		X7S	100 μ	±20	10	150		2.5±0.30	R

## 【Temperature Characteristic B7 : X7R】 2.5mm thickness (M)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan $\delta$ [%]	HTLT		Soldering R:Reflow W:Wave
							Rated voltage x %	Thickness <sup>*3</sup> [mm]	
UMK325 B7335□M-P		50	X7R	3.3 $\mu$	$\pm 10, \pm 20$	3.5	200	2.5 $\pm 0.20$	R
UMK325 B7475□M-P			X7R	4.7 $\mu$	$\pm 10, \pm 20$	5	150	2.5 $\pm 0.20$	R
UMK325AB7106□M-P			X7R	10 $\mu$	$\pm 10, \pm 20$	10	150	2.5 $\pm 0.30$	R
TMK325AB7106□M-P		25	X7R	10 $\mu$	$\pm 10, \pm 20$	10	200	2.5 $\pm 0.30$	R
TMK325 B7226□M-PR			X7R	22 $\mu$	$\pm 10, \pm 20$	10	150	2.5 $\pm 0.20$	R
EMK325 B7226□M-PR		16	X7R	22 $\mu$	$\pm 10, \pm 20$	10	150	2.5 $\pm 0.20$	R
LMK325 B7476□M-PR		10	X7R	47 $\mu$	$\pm 10, \pm 20$	10	150	2.5 $\pm 0.20$	R
JMK325 B7476□M-PR		6.3	X7R	47 $\mu$	$\pm 10, \pm 20$	10	200	2.5 $\pm 0.20$	R

## 【Temperature Characteristic B7 : X7R】 1.9mm thickness (N)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan $\delta$ [%]	HTLT		Soldering R:Reflow W:Wave
							Rated voltage x %	Thickness <sup>*3</sup> [mm]	
UMK325 B7475□N-TR		50	X7R	4.7 $\mu$	$\pm 10, \pm 20$	10	150	1.9 $\pm 0.20$	R
TMK325 B7335□N-T			X7R	3.3 $\mu$	$\pm 10, \pm 20$	3.5	200	1.9 $\pm 0.20$	R
TMK325 B7475□N-T		25	X7R	4.7 $\mu$	$\pm 10, \pm 20$	3.5	150	1.9 $\pm 0.20$	R
TMK325 B7106□N-TR			X7R	10 $\mu$	$\pm 10, \pm 20$	10	150	1.9 $\pm 0.20$	R
EMK325 B7475□N-T		16	X7R	4.7 $\mu$	$\pm 10, \pm 20$	3.5	200	1.9 $\pm 0.20$	R
EMK325 B7106□N-T			X7R	10 $\mu$	$\pm 10, \pm 20$	3.5	150	1.9 $\pm 0.20$	R
LMK325 B7106□N-T		10	X7R	10 $\mu$	$\pm 10, \pm 20$	3.5	200	1.9 $\pm 0.20$	R

## ● 432TYPE

## 【Temperature Characteristic BJ : X5R】 2.5mm thickness (M)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan $\delta$ [%]	HTLT		Soldering R:Reflow W:Wave
							Rated voltage x %	Thickness <sup>*3</sup> [mm]	
AMK432 BJ477MM-T		4	X5R	470 $\mu$	$\pm 20$	10	150	2.5 $\pm 0.20$	R

## 【Temperature Characteristic C6 : X6S】 2.5mm thickness (M)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance [%]	tan $\delta$ [%]	HTLT		Soldering R:Reflow W:Wave
							Rated voltage x %	Thickness <sup>*3</sup> [mm]	
PMK432 C6477MM-T		2.5	X6S	470 $\mu$	$\pm 20$	10	150	2.5 $\pm 0.20$	R

## Multilayer Ceramic Capacitors (Temperature compensating type)

## ● 021TYPE

【Temperature Characteristic CG : CG/C0G】 0.125mm thickness (K)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance	Q (at 1MHz) min	HTLT		Thickness <sup>*3</sup> [mm]	Soldering R:Reflow W:Wave
							Rated voltage x %			
TMK021 CG0R2[K-W]		25	CG C0G	0.2 p	±0.1pF, ±0.25pF	404	200	0.125±0.013	R	
TMK021 CG0R3[K-W]			CG C0G	0.3 p	±0.1pF, ±0.25pF	406	200	0.125±0.013	R	
TMK021 CG0R4[K-W]			CG C0G	0.4 p	±0.1pF, ±0.25pF	408	200	0.125±0.013	R	
TMK021 CG0R5[K-W]			CG C0G	0.5 p	±0.1pF, ±0.25pF	410	200	0.125±0.013	R	
TMK021 CG0R6[K-W]			CG C0G	0.6 p	±0.1pF, ±0.25pF	412	200	0.125±0.013	R	
TMK021 CG0R7[K-W]			CG C0G	0.7 p	±0.1pF, ±0.25pF	414	200	0.125±0.013	R	
TMK021 CGR75[K-W]			CG C0G	0.75 p	±0.1pF, ±0.25pF	415	200	0.125±0.013	R	
TMK021 CG0R8[K-W]			CG C0G	0.8 p	±0.1pF, ±0.25pF	416	200	0.125±0.013	R	
TMK021 CG0R9[K-W]			CG C0G	0.9 p	±0.1pF, ±0.25pF	418	200	0.125±0.013	R	
TMK021 CG010[K-W]			CG C0G	1 p	±0.1pF, ±0.25pF	420	200	0.125±0.013	R	
TMK021 CG1R1[K-W]			CG C0G	1.1 p	±0.1pF, ±0.25pF	422	200	0.125±0.013	R	
TMK021 CG1R2[K-W]			CG C0G	1.2 p	±0.1pF, ±0.25pF	424	200	0.125±0.013	R	
TMK021 CG1R3[K-W]			CG C0G	1.3 p	±0.1pF, ±0.25pF	426	200	0.125±0.013	R	
TMK021 CG1R4[K-W]			CG C0G	1.4 p	±0.1pF, ±0.25pF	428	200	0.125±0.013	R	
TMK021 CG1R5[K-W]			CG C0G	1.5 p	±0.1pF, ±0.25pF	430	200	0.125±0.013	R	
TMK021 CG1R6[K-W]			CG C0G	1.6 p	±0.1pF, ±0.25pF	432	200	0.125±0.013	R	
TMK021 CG1R7[K-W]			CG C0G	1.7 p	±0.1pF, ±0.25pF	434	200	0.125±0.013	R	
TMK021 CG1R8[K-W]			CG C0G	1.8 p	±0.1pF, ±0.25pF	436	200	0.125±0.013	R	
TMK021 CG1R9[K-W]			CG C0G	1.9 p	±0.1pF, ±0.25pF	438	200	0.125±0.013	R	
TMK021 CG020[K-W]			CG C0G	2 p	±0.1pF, ±0.25pF	440	200	0.125±0.013	R	
TMK021 CG2R1[K-W]			CG C0G	2.1 p	±0.1pF, ±0.25pF	442	200	0.125±0.013	R	
TMK021 CG2R2[K-W]			CG C0G	2.2 p	±0.1pF, ±0.25pF	444	200	0.125±0.013	R	
TMK021 CG2R3[K-W]			CG C0G	2.3 p	±0.1pF, ±0.25pF	446	200	0.125±0.013	R	
TMK021 CG2R4[K-W]			CG C0G	2.4 p	±0.1pF, ±0.25pF	448	200	0.125±0.013	R	
TMK021 CG2R5[K-W]			CG C0G	2.5 p	±0.1pF, ±0.25pF	450	200	0.125±0.013	R	
TMK021 CG2R6[K-W]			CG C0G	2.6 p	±0.1pF, ±0.25pF	452	200	0.125±0.013	R	
TMK021 CG2R7[K-W]			CG C0G	2.7 p	±0.1pF, ±0.25pF	454	200	0.125±0.013	R	
TMK021 CG2R8[K-W]			CG C0G	2.8 p	±0.1pF, ±0.25pF	456	200	0.125±0.013	R	
TMK021 CG2R9[K-W]			CG C0G	2.9 p	±0.1pF, ±0.25pF	458	200	0.125±0.013	R	
TMK021 CG030[K-W]			CG C0G	3 p	±0.1pF, ±0.25pF	460	200	0.125±0.013	R	
TMK021 CG3R1[K-W]			CG C0G	3.1 p	±0.1pF, ±0.25pF	462	200	0.125±0.013	R	
TMK021 CG3R2[K-W]			CG C0G	3.2 p	±0.1pF, ±0.25pF	464	200	0.125±0.013	R	
TMK021 CG3R3[K-W]			CG C0G	3.3 p	±0.1pF, ±0.25pF	466	200	0.125±0.013	R	
TMK021 CG3R4[K-W]			CG C0G	3.4 p	±0.1pF, ±0.25pF	468	200	0.125±0.013	R	
TMK021 CG3R5[K-W]			CG C0G	3.5 p	±0.1pF, ±0.25pF	470	200	0.125±0.013	R	
TMK021 CG3R6[K-W]			CG C0G	3.6 p	±0.1pF, ±0.25pF	472	200	0.125±0.013	R	
TMK021 CG3R7[K-W]			CG C0G	3.7 p	±0.1pF, ±0.25pF	474	200	0.125±0.013	R	
TMK021 CG3R8[K-W]			CG C0G	3.8 p	±0.1pF, ±0.25pF	476	200	0.125±0.013	R	
TMK021 CG3R9[K-W]			CG C0G	3.9 p	±0.1pF, ±0.25pF	478	200	0.125±0.013	R	
TMK021 CG040[K-W]			CG C0G	4 p	±0.1pF, ±0.25pF	480	200	0.125±0.013	R	
TMK021 CG4R1[K-W]			CG C0G	4.1 p	±0.1pF, ±0.25pF	482	200	0.125±0.013	R	
TMK021 CG4R2[K-W]			CG C0G	4.2 p	±0.1pF, ±0.25pF	484	200	0.125±0.013	R	
TMK021 CG4R3[K-W]			CG C0G	4.3 p	±0.1pF, ±0.25pF	486	200	0.125±0.013	R	
TMK021 CG4R4[K-W]			CG C0G	4.4 p	±0.1pF, ±0.25pF	488	200	0.125±0.013	R	
TMK021 CG4R5[K-W]			CG C0G	4.5 p	±0.1pF, ±0.25pF	490	200	0.125±0.013	R	
TMK021 CG4R6[K-W]			CG C0G	4.6 p	±0.1pF, ±0.25pF	492	200	0.125±0.013	R	
TMK021 CG4R7[K-W]			CG C0G	4.7 p	±0.1pF, ±0.25pF	494	200	0.125±0.013	R	
TMK021 CG4R8[K-W]			CG C0G	4.8 p	±0.1pF, ±0.25pF	496	200	0.125±0.013	R	
TMK021 CG4R9[K-W]			CG C0G	4.9 p	±0.1pF, ±0.25pF	498	200	0.125±0.013	R	
TMK021 CG050[K-W]			CG C0G	5 p	±0.1pF, ±0.25pF	500	200	0.125±0.013	R	
TMK021 CG5R1[K-W]		CG C0G	5.1 p	±0.25pF, ±0.5pF	502	200	0.125±0.013	R		
TMK021 CG5R2[K-W]		CG C0G	5.2 p	±0.25pF, ±0.5pF	504	200	0.125±0.013	R		
TMK021 CG5R3[K-W]		CG C0G	5.3 p	±0.25pF, ±0.5pF	506	200	0.125±0.013	R		
TMK021 CG5R4[K-W]		CG C0G	5.4 p	±0.25pF, ±0.5pF	508	200	0.125±0.013	R		
TMK021 CG5R5[K-W]		CG C0G	5.5 p	±0.25pF, ±0.5pF	510	200	0.125±0.013	R		
TMK021 CG5R6[K-W]		CG C0G	5.6 p	±0.25pF, ±0.5pF	512	200	0.125±0.013	R		
TMK021 CG5R7[K-W]		CG C0G	5.7 p	±0.25pF, ±0.5pF	514	200	0.125±0.013	R		
TMK021 CG5R8[K-W]		CG C0G	5.8 p	±0.25pF, ±0.5pF	516	200	0.125±0.013	R		
TMK021 CG5R9[K-W]		CG C0G	5.9 p	±0.25pF, ±0.5pF	518	200	0.125±0.013	R		
TMK021 CG060[K-W]		CG C0G	6 p	±0.25pF, ±0.5pF	520	200	0.125±0.013	R		
TMK021 CG6R1[K-W]		CG C0G	6.1 p	±0.25pF, ±0.5pF	522	200	0.125±0.013	R		
TMK021 CG6R2[K-W]		CG C0G	6.2 p	±0.25pF, ±0.5pF	524	200	0.125±0.013	R		
TMK021 CG6R3[K-W]		CG C0G	6.3 p	±0.25pF, ±0.5pF	526	200	0.125±0.013	R		
TMK021 CG6R4[K-W]		CG C0G	6.4 p	±0.25pF, ±0.5pF	528	200	0.125±0.013	R		
TMK021 CG6R5[K-W]		CG C0G	6.5 p	±0.25pF, ±0.5pF	530	200	0.125±0.013	R		
TMK021 CG6R6[K-W]		CG C0G	6.6 p	±0.25pF, ±0.5pF	532	200	0.125±0.013	R		
TMK021 CG6R7[K-W]		CG C0G	6.7 p	±0.25pF, ±0.5pF	534	200	0.125±0.013	R		
TMK021 CG6R8[K-W]		CG C0G	6.8 p	±0.25pF, ±0.5pF	536	200	0.125±0.013	R		
TMK021 CG6R9[K-W]		CG C0G	6.9 p	±0.25pF, ±0.5pF	538	200	0.125±0.013	R		
TMK021 CG070[K-W]		CG C0G	7 p	±0.25pF, ±0.5pF	540	200	0.125±0.013	R		
TMK021 CG7R1[K-W]		CG C0G	7.1 p	±0.25pF, ±0.5pF	542	200	0.125±0.013	R		
TMK021 CG7R2[K-W]		CG C0G	7.2 p	±0.25pF, ±0.5pF	544	200	0.125±0.013	R		
TMK021 CG7R3[K-W]		CG C0G	7.3 p	±0.25pF, ±0.5pF	546	200	0.125±0.013	R		
TMK021 CG7R4[K-W]		CG C0G	7.4 p	±0.25pF, ±0.5pF	548	200	0.125±0.013	R		
TMK021 CG7R5[K-W]		CG C0G	7.5 p	±0.25pF, ±0.5pF	550	200	0.125±0.013	R		
TMK021 CG7R6[K-W]		CG C0G	7.6 p	±0.25pF, ±0.5pF	552	200	0.125±0.013	R		
TMK021 CG7R7[K-W]		CG C0G	7.7 p	±0.25pF, ±0.5pF	554	200	0.125±0.013	R		
TMK021 CG7R8[K-W]		CG C0G	7.8 p	±0.25pF, ±0.5pF	556	200	0.125±0.013	R		
TMK021 CG7R9[K-W]		CG C0G	7.9 p	±0.25pF, ±0.5pF	558	200	0.125±0.013	R		
TMK021 CG080[K-W]		CG C0G	8 p	±0.25pF, ±0.5pF	560	200	0.125±0.013	R		
TMK021 CG8R1[K-W]		CG C0G	8.1 p	±0.25pF, ±0.5pF	562	200	0.125±0.013	R		
TMK021 CG8R2[K-W]		CG C0G	8.2 p	±0.25pF, ±0.5pF	564	200	0.125±0.013	R		
TMK021 CG8R3[K-W]		CG C0G	8.3 p	±0.25pF, ±0.5pF	566	200	0.125±0.013	R		
TMK021 CG8R4[K-W]		CG C0G	8.4 p	±0.25pF, ±0.5pF	568	200	0.125±0.013	R		
TMK021 CG8R5[K-W]		CG C0G	8.5 p	±0.25pF, ±0.5pF	570	200	0.125±0.013	R		

▶ This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our product specification sheets. For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our website (<http://www.ty-top.com/>).



PARTS NUMBER

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance	Q (at 1MHz) min	HTLT	Thickness <sup>*3</sup> [mm]	Soldering R:Reflow W:Wave
								Rated voltage x %		
TMK021 CG8R6□K-W		25	CG	COG	8.6 p	±0.25pF, ±0.5pF	572	200	0.125±0.013	R
TMK021 CG8R7□K-W			CG	COG	8.7 p	±0.25pF, ±0.5pF	574	200	0.125±0.013	R
TMK021 CG8R8□K-W			CG	COG	8.8 p	±0.25pF, ±0.5pF	576	200	0.125±0.013	R
TMK021 CG8R9□K-W			CG	COG	8.9 p	±0.25pF, ±0.5pF	578	200	0.125±0.013	R
TMK021 CG090□K-W			CG	COG	9 p	±0.25pF, ±0.5pF	580	200	0.125±0.013	R
TMK021 CG9R1□K-W			CG	COG	9.1 p	±0.25pF, ±0.5pF	582	200	0.125±0.013	R
TMK021 CG9R2□K-W			CG	COG	9.2 p	±0.25pF, ±0.5pF	584	200	0.125±0.013	R
TMK021 CG9R3□K-W			CG	COG	9.3 p	±0.25pF, ±0.5pF	586	200	0.125±0.013	R
TMK021 CG9R4□K-W			CG	COG	9.4 p	±0.25pF, ±0.5pF	588	200	0.125±0.013	R
TMK021 CG9R5□K-W			CG	COG	9.5 p	±0.25pF, ±0.5pF	590	200	0.125±0.013	R
TMK021 CG9R6□K-W			CG	COG	9.6 p	±0.25pF, ±0.5pF	592	200	0.125±0.013	R
TMK021 CG9R7□K-W			CG	COG	9.7 p	±0.25pF, ±0.5pF	594	200	0.125±0.013	R
TMK021 CG9R8□K-W			CG	COG	9.8 p	±0.25pF, ±0.5pF	596	200	0.125±0.013	R
TMK021 CG9R9□K-W			CG	COG	9.9 p	±0.25pF, ±0.5pF	598	200	0.125±0.013	R
TMK021 CG100DK-W			CG	COG	10 p	±0.5pF	600	200	0.125±0.013	R
TMK021 CG120JK-W			CG	COG	12 p	±5%	640	200	0.125±0.013	R
TMK021 CG150JK-W			CG	COG	15 p	±5%	700	200	0.125±0.013	R
TMK021 CG180JK-W			CG	COG	18 p	±5%	760	200	0.125±0.013	R
TMK021 CG220JK-W			CG	COG	22 p	±5%	840	200	0.125±0.013	R
TMK021 CG270JK-W			CG	COG	27 p	±5%	940	200	0.125±0.013	R
EMK021 CG330JK-W		16	CG	COG	33 p	±5%	1000	150	0.125±0.013	R
EMK021 CG390JK-W			CG	COG	39 p	±5%	1000	150	0.125±0.013	R
EMK021 CG470JK-W			CG	COG	47 p	±5%	1000	150	0.125±0.013	R
EMK021 CG560JK-W			CG	COG	56 p	±5%	1000	150	0.125±0.013	R

042TYPE

[Temperature Characteristic CG : CG/COG] 0.2mm thickness (C,D)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance	Q (at 1MHz) min	HTLT	Thickness <sup>*3</sup> [mm]	Soldering R:Reflow W:Wave
								Rated voltage x %		
TMK042 CG0R4□D-W		25	CG	COG	0.4 p	±0.05pF, ±0.1pF, ±0.25pF	408	200	0.2±0.02	R
TMK042 CG0R5□D-W			CG	COG	0.5 p	±0.05pF, ±0.1pF, ±0.25pF	410	200	0.2±0.02	R
TMK042 CG0R6□D-W			CG	COG	0.6 p	±0.05pF, ±0.1pF, ±0.25pF	412	200	0.2±0.02	R
TMK042 CG0R7□D-W			CG	COG	0.7 p	±0.05pF, ±0.1pF, ±0.25pF	414	200	0.2±0.02	R
TMK042 CGR75□D-W			CG	COG	0.75 p	±0.05pF, ±0.1pF, ±0.25pF	415	200	0.2±0.02	R
TMK042 CG0R8□D-W			CG	COG	0.8 p	±0.05pF, ±0.1pF, ±0.25pF	416	200	0.2±0.02	R
TMK042 CG0R9□D-W			CG	COG	0.9 p	±0.05pF, ±0.1pF, ±0.25pF	418	200	0.2±0.02	R
TMK042 CG010□D-W			CG	COG	1 p	±0.05pF, ±0.1pF, ±0.25pF	420	200	0.2±0.02	R
TMK042 CG1R1□D-W			CG	COG	1.1 p	±0.05pF, ±0.1pF, ±0.25pF	422	200	0.2±0.02	R
TMK042 CG1R2□D-W			CG	COG	1.2 p	±0.05pF, ±0.1pF, ±0.25pF	424	200	0.2±0.02	R
TMK042 CG1R3□D-W			CG	COG	1.3 p	±0.05pF, ±0.1pF, ±0.25pF	426	200	0.2±0.02	R
TMK042 CG1R4□D-W			CG	COG	1.4 p	±0.05pF, ±0.1pF, ±0.25pF	428	200	0.2±0.02	R
TMK042 CG1R5□D-W			CG	COG	1.5 p	±0.05pF, ±0.1pF, ±0.25pF	430	200	0.2±0.02	R
TMK042 CG1R6□D-W			CG	COG	1.6 p	±0.05pF, ±0.1pF, ±0.25pF	432	200	0.2±0.02	R
TMK042 CG1R7□D-W			CG	COG	1.7 p	±0.05pF, ±0.1pF, ±0.25pF	434	200	0.2±0.02	R
TMK042 CG1R8□D-W			CG	COG	1.8 p	±0.05pF, ±0.1pF, ±0.25pF	436	200	0.2±0.02	R
TMK042 CG1R9□D-W			CG	COG	1.9 p	±0.05pF, ±0.1pF, ±0.25pF	438	200	0.2±0.02	R
TMK042 CG020□D-W			CG	COG	2 p	±0.05pF, ±0.1pF, ±0.25pF	440	200	0.2±0.02	R
TMK042 CG2R1□D-W			CG	COG	2.1 p	±0.05pF, ±0.1pF, ±0.25pF	442	200	0.2±0.02	R
TMK042 CG2R2□D-W			CG	COG	2.2 p	±0.05pF, ±0.1pF, ±0.25pF	444	200	0.2±0.02	R
TMK042 CG2R3□D-W			CG	COG	2.3 p	±0.05pF, ±0.1pF, ±0.25pF	446	200	0.2±0.02	R
TMK042 CG2R4□D-W			CG	COG	2.4 p	±0.05pF, ±0.1pF, ±0.25pF	448	200	0.2±0.02	R
TMK042 CG2R5□D-W			CG	COG	2.5 p	±0.05pF, ±0.1pF, ±0.25pF	450	200	0.2±0.02	R
TMK042 CG2R6□D-W			CG	COG	2.6 p	±0.05pF, ±0.1pF, ±0.25pF	452	200	0.2±0.02	R
TMK042 CG2R7□D-W			CG	COG	2.7 p	±0.05pF, ±0.1pF, ±0.25pF	454	200	0.2±0.02	R
TMK042 CG2R8□D-W			CG	COG	2.8 p	±0.05pF, ±0.1pF, ±0.25pF	456	200	0.2±0.02	R
TMK042 CG2R9□D-W			CG	COG	2.9 p	±0.05pF, ±0.1pF, ±0.25pF	458	200	0.2±0.02	R
TMK042 CG030□D-W			CG	COG	3 p	±0.05pF, ±0.1pF, ±0.25pF	460	200	0.2±0.02	R
TMK042 CG3R1□D-W			CG	COG	3.1 p	±0.1pF, ±0.25pF	462	200	0.2±0.02	R
TMK042 CG3R2□D-W			CG	COG	3.2 p	±0.1pF, ±0.25pF	464	200	0.2±0.02	R
TMK042 CG3R3□D-W			CG	COG	3.3 p	±0.1pF, ±0.25pF	466	200	0.2±0.02	R
TMK042 CG3R4□D-W			CG	COG	3.4 p	±0.1pF, ±0.25pF	468	200	0.2±0.02	R
TMK042 CG3R5□D-W			CG	COG	3.5 p	±0.1pF, ±0.25pF	470	200	0.2±0.02	R
TMK042 CG3R6□D-W			CG	COG	3.6 p	±0.1pF, ±0.25pF	472	200	0.2±0.02	R
TMK042 CG3R7□D-W			CG	COG	3.7 p	±0.1pF, ±0.25pF	474	200	0.2±0.02	R
TMK042 CG3R8□D-W			CG	COG	3.8 p	±0.1pF, ±0.25pF	476	200	0.2±0.02	R
TMK042 CG3R9□D-W			CG	COG	3.9 p	±0.1pF, ±0.25pF	478	200	0.2±0.02	R
TMK042 CG040□D-W			CG	COG	4 p	±0.1pF, ±0.25pF	480	200	0.2±0.02	R
TMK042 CG4R1□D-W			CG	COG	4.1 p	±0.1pF, ±0.25pF	482	200	0.2±0.02	R
TMK042 CG4R2□D-W			CG	COG	4.2 p	±0.1pF, ±0.25pF	484	200	0.2±0.02	R
TMK042 CG4R3□D-W			CG	COG	4.3 p	±0.1pF, ±0.25pF	486	200	0.2±0.02	R
TMK042 CG4R4□D-W			CG	COG	4.4 p	±0.1pF, ±0.25pF	488	200	0.2±0.02	R
TMK042 CG4R5□D-W			CG	COG	4.5 p	±0.1pF, ±0.25pF	490	200	0.2±0.02	R
TMK042 CG4R6□D-W			CG	COG	4.6 p	±0.1pF, ±0.25pF	492	200	0.2±0.02	R
TMK042 CG4R7□D-W			CG	COG	4.7 p	±0.1pF, ±0.25pF	494	200	0.2±0.02	R
TMK042 CG4R8□D-W			CG	COG	4.8 p	±0.1pF, ±0.25pF	496	200	0.2±0.02	R
TMK042 CG4R9□D-W			CG	COG	4.9 p	±0.1pF, ±0.25pF	498	200	0.2±0.02	R
TMK042 CG050□D-W			CG	COG	5 p	±0.1pF, ±0.25pF	500	200	0.2±0.02	R
TMK042 CG5R1□D-W			CG	COG	5.1 p	±0.1pF, ±0.25pF, ±0.5pF	502	200	0.2±0.02	R
TMK042 CG5R2□D-W			CG	COG	5.2 p	±0.1pF, ±0.25pF, ±0.5pF	504	200	0.2±0.02	R
TMK042 CG5R3□D-W			CG	COG	5.3 p	±0.1pF, ±0.25pF, ±0.5pF	506	200	0.2±0.02	R
TMK042 CG5R4□D-W			CG	COG	5.4 p	±0.1pF, ±0.25pF, ±0.5pF	508	200	0.2±0.02	R
TMK042 CG5R5□D-W			CG	COG	5.5 p	±0.1pF, ±0.25pF, ±0.5pF	510	200	0.2±0.02	R
TMK042 CG5R6□D-W			CG	COG	5.6 p	±0.1pF, ±0.25pF, ±0.5pF	512	200	0.2±0.02	R
TMK042 CG5R7□D-W			CG	COG	5.7 p	±0.1pF, ±0.25pF, ±0.5pF	514	200	0.2±0.02	R
TMK042 CG5R8□D-W			CG	COG	5.8 p	±0.1pF, ±0.25pF, ±0.5pF	516	200	0.2±0.02	R
TMK042 CG5R9□D-W			CG	COG	5.9 p	±0.1pF, ±0.25pF, ±0.5pF	518	200	0.2±0.02	R
TMK042 CG060□D-W			CG	COG	6 p	±0.1pF, ±0.25pF, ±0.5pF	520	200	0.2±0.02	R

▶ This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our product specification sheets. For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our website (<http://www.ty-top.com/>).

■ PARTS NUMBER

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance	Q (at 1MHz) min	HTLT	Thickness*3 [mm]	Soldering R:Reflow W:Wave
							Rated voltage x %		
TMK042 CG6R1[D-W]		25	CG C0G	6.1 p	±0.1pF, ±0.25pF, ±0.5pF	522	200	0.2±0.02	R
TMK042 CG6R2[D-W]			CG C0G	6.2 p	±0.1pF, ±0.25pF, ±0.5pF	524	200	0.2±0.02	R
TMK042 CG6R3[D-W]			CG C0G	6.3 p	±0.1pF, ±0.25pF, ±0.5pF	526	200	0.2±0.02	R
TMK042 CG6R4[D-W]			CG C0G	6.4 p	±0.1pF, ±0.25pF, ±0.5pF	528	200	0.2±0.02	R
TMK042 CG6R5[D-W]			CG C0G	6.5 p	±0.1pF, ±0.25pF, ±0.5pF	530	200	0.2±0.02	R
TMK042 CG6R6[D-W]			CG C0G	6.6 p	±0.1pF, ±0.25pF, ±0.5pF	532	200	0.2±0.02	R
TMK042 CG6R7[D-W]			CG C0G	6.7 p	±0.1pF, ±0.25pF, ±0.5pF	534	200	0.2±0.02	R
TMK042 CG6R8[D-W]			CG C0G	6.8 p	±0.1pF, ±0.25pF, ±0.5pF	536	200	0.2±0.02	R
TMK042 CG6R9[D-W]			CG C0G	6.9 p	±0.1pF, ±0.25pF, ±0.5pF	538	200	0.2±0.02	R
TMK042 CG070[D-W]			CG C0G	7 p	±0.1pF, ±0.25pF, ±0.5pF	540	200	0.2±0.02	R
TMK042 CG7R1[D-W]			CG C0G	7.1 p	±0.1pF, ±0.25pF, ±0.5pF	542	200	0.2±0.02	R
TMK042 CG7R2[D-W]			CG C0G	7.2 p	±0.1pF, ±0.25pF, ±0.5pF	544	200	0.2±0.02	R
TMK042 CG7R3[D-W]			CG C0G	7.3 p	±0.1pF, ±0.25pF, ±0.5pF	546	200	0.2±0.02	R
TMK042 CG7R4[D-W]			CG C0G	7.4 p	±0.1pF, ±0.25pF, ±0.5pF	548	200	0.2±0.02	R
TMK042 CG7R5[D-W]			CG C0G	7.5 p	±0.1pF, ±0.25pF, ±0.5pF	550	200	0.2±0.02	R
TMK042 CG7R6[D-W]			CG C0G	7.6 p	±0.1pF, ±0.25pF, ±0.5pF	552	200	0.2±0.02	R
TMK042 CG7R7[D-W]			CG C0G	7.7 p	±0.1pF, ±0.25pF, ±0.5pF	554	200	0.2±0.02	R
TMK042 CG7R8[D-W]			CG C0G	7.8 p	±0.1pF, ±0.25pF, ±0.5pF	556	200	0.2±0.02	R
TMK042 CG7R9[D-W]			CG C0G	7.9 p	±0.1pF, ±0.25pF, ±0.5pF	558	200	0.2±0.02	R
TMK042 CG080[D-W]			CG C0G	8 p	±0.1pF, ±0.25pF, ±0.5pF	560	200	0.2±0.02	R
TMK042 CG8R1[D-W]			CG C0G	8.1 p	±0.1pF, ±0.25pF, ±0.5pF	562	200	0.2±0.02	R
TMK042 CG8R2[D-W]			CG C0G	8.2 p	±0.1pF, ±0.25pF, ±0.5pF	564	200	0.2±0.02	R
TMK042 CG8R3[D-W]			CG C0G	8.3 p	±0.1pF, ±0.25pF, ±0.5pF	566	200	0.2±0.02	R
TMK042 CG8R4[D-W]			CG C0G	8.4 p	±0.1pF, ±0.25pF, ±0.5pF	568	200	0.2±0.02	R
TMK042 CG8R5[D-W]			CG C0G	8.5 p	±0.1pF, ±0.25pF, ±0.5pF	570	200	0.2±0.02	R
TMK042 CG8R6[D-W]			CG C0G	8.6 p	±0.1pF, ±0.25pF, ±0.5pF	572	200	0.2±0.02	R
TMK042 CG8R7[D-W]			CG C0G	8.7 p	±0.1pF, ±0.25pF, ±0.5pF	574	200	0.2±0.02	R
TMK042 CG8R8[D-W]			CG C0G	8.8 p	±0.1pF, ±0.25pF, ±0.5pF	576	200	0.2±0.02	R
TMK042 CG8R9[D-W]			CG C0G	8.9 p	±0.1pF, ±0.25pF, ±0.5pF	578	200	0.2±0.02	R
TMK042 CG090[D-W]			CG C0G	9 p	±0.1pF, ±0.25pF, ±0.5pF	580	200	0.2±0.02	R
TMK042 CG9R1[D-W]			CG C0G	9.1 p	±0.1pF, ±0.25pF, ±0.5pF	582	200	0.2±0.02	R
TMK042 CG9R2[D-W]			CG C0G	9.2 p	±0.1pF, ±0.25pF, ±0.5pF	584	200	0.2±0.02	R
TMK042 CG9R3[D-W]			CG C0G	9.3 p	±0.1pF, ±0.25pF, ±0.5pF	586	200	0.2±0.02	R
TMK042 CG9R4[D-W]			CG C0G	9.4 p	±0.1pF, ±0.25pF, ±0.5pF	588	200	0.2±0.02	R
TMK042 CG9R5[D-W]			CG C0G	9.5 p	±0.1pF, ±0.25pF, ±0.5pF	590	200	0.2±0.02	R
TMK042 CG9R6[D-W]			CG C0G	9.6 p	±0.1pF, ±0.25pF, ±0.5pF	592	200	0.2±0.02	R
TMK042 CG9R7[D-W]			CG C0G	9.7 p	±0.1pF, ±0.25pF, ±0.5pF	594	200	0.2±0.02	R
TMK042 CG9R8[D-W]			CG C0G	9.8 p	±0.1pF, ±0.25pF, ±0.5pF	596	200	0.2±0.02	R
TMK042 CG9R9[D-W]			CG C0G	9.9 p	±0.1pF, ±0.25pF, ±0.5pF	598	200	0.2±0.02	R
TMK042 CG100DD-W			CG C0G	10 p	±5%	600	200	0.2±0.02	R
TMK042 CG110JD-W			CG C0G	11 p	±5%	620	200	0.2±0.02	R
TMK042 CG120JD-W			CG C0G	12 p	±5%	640	200	0.2±0.02	R
TMK042 CG130JD-W			CG C0G	13 p	±5%	660	200	0.2±0.02	R
TMK042 CG150JD-W			CG C0G	15 p	±5%	700	200	0.2±0.02	R
TMK042 CG160JC-W			CG C0G	16 p	±5%	720	200	0.2±0.02	R
TMK042 CG180JC-W			CG C0G	18 p	±5%	760	200	0.2±0.02	R
TMK042 CG200JC-W			CG C0G	20 p	±5%	800	200	0.2±0.02	R
TMK042 CG220JC-W			CG C0G	22 p	±5%	840	200	0.2±0.02	R
TMK042 CG240JC-W			CG C0G	24 p	±5%	880	200	0.2±0.02	R
TMK042 CG270JC-W			CG C0G	27 p	±5%	940	200	0.2±0.02	R
TMK042 CG300JC-W			CG C0G	30 p	±5%	1000	200	0.2±0.02	R
TMK042 CG330JC-W			CG C0G	33 p	±5%	1000	200	0.2±0.02	R
TMK042 CG360JC-W			CG C0G	36 p	±5%	1000	200	0.2±0.02	R
TMK042 CG390JC-W			CG C0G	39 p	±5%	1000	200	0.2±0.02	R
TMK042 CG430JC-W			CG C0G	43 p	±5%	1000	200	0.2±0.02	R
TMK042 CG470JC-W			CG C0G	47 p	±5%	1000	200	0.2±0.02	R
TMK042 CG510JC-W			CG C0G	51 p	±5%	1000	200	0.2±0.02	R
TMK042 CG560JC-W			CG C0G	56 p	±5%	1000	200	0.2±0.02	R
TMK042 CG620JC-W			CG C0G	62 p	±5%	1000	200	0.2±0.02	R
TMK042 CG680JC-W			CG C0G	68 p	±5%	1000	200	0.2±0.02	R
TMK042 CG750JC-W		CG C0G	75 p	±5%	1000	200	0.2±0.02	R	
TMK042 CG820JC-W		CG C0G	82 p	±5%	1000	200	0.2±0.02	R	
TMK042 CG910JC-W		CG C0G	91 p	±5%	1000	200	0.2±0.02	R	
TMK042 CG101JC-W		CG C0G	100 p	±5%	1000	200	0.2±0.02	R	

【Temperature Characteristic CG : CG/C0G】 0.2mm thickness (C,D)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance	Q (at 1MHz) min	HTLT	Thickness*3 [mm]	Soldering R:Reflow W:Wave
							Rated voltage x %		
EMK042 CG0R4[D-W]		16	CG C0G	0.4 p	±0.05pF, ±0.1pF, ±0.25pF	408	200	0.2±0.02	R
EMK042 CG0R5[D-W]			CG C0G	0.5 p	±0.05pF, ±0.1pF, ±0.25pF	410	200	0.2±0.02	R
EMK042 CG0R6[D-W]			CG C0G	0.6 p	±0.05pF, ±0.1pF, ±0.25pF	412	200	0.2±0.02	R
EMK042 CG0R7[D-W]			CG C0G	0.7 p	±0.05pF, ±0.1pF, ±0.25pF	414	200	0.2±0.02	R
EMK042 CGR75[D-W]			CG C0G	0.75 p	±0.05pF, ±0.1pF, ±0.25pF	415	200	0.2±0.02	R
EMK042 CG0R8[D-W]			CG C0G	0.8 p	±0.05pF, ±0.1pF, ±0.25pF	416	200	0.2±0.02	R
EMK042 CG0R9[D-W]			CG C0G	0.9 p	±0.05pF, ±0.1pF, ±0.25pF	418	200	0.2±0.02	R
EMK042 CG010[D-W]			CG C0G	1 p	±0.05pF, ±0.1pF, ±0.25pF	420	200	0.2±0.02	R
EMK042 CG1R1[D-W]			CG C0G	1.1 p	±0.05pF, ±0.1pF, ±0.25pF	422	200	0.2±0.02	R
EMK042 CG1R2[D-W]			CG C0G	1.2 p	±0.05pF, ±0.1pF, ±0.25pF	424	200	0.2±0.02	R
EMK042 CG1R3[D-W]			CG C0G	1.3 p	±0.05pF, ±0.1pF, ±0.25pF	426	200	0.2±0.02	R
EMK042 CG1R4[D-W]			CG C0G	1.4 p	±0.05pF, ±0.1pF, ±0.25pF	428	200	0.2±0.02	R
EMK042 CG1R5[D-W]			CG C0G	1.5 p	±0.05pF, ±0.1pF, ±0.25pF	430	200	0.2±0.02	R
EMK042 CG1R6[D-W]			CG C0G	1.6 p	±0.05pF, ±0.1pF, ±0.25pF	432	200	0.2±0.02	R
EMK042 CG1R7[D-W]			CG C0G	1.7 p	±0.05pF, ±0.1pF, ±0.25pF	434	200	0.2±0.02	R
EMK042 CG1R8[D-W]			CG C0G	1.8 p	±0.05pF, ±0.1pF, ±0.25pF	436	200	0.2±0.02	R
EMK042 CG1R9[D-W]			CG C0G	1.9 p	±0.05pF, ±0.1pF, ±0.25pF	438	200	0.2±0.02	R
EMK042 CG020[D-W]			CG C0G	2 p	±0.05pF, ±0.1pF, ±0.25pF	440	200	0.2±0.02	R
EMK042 CG2R1[D-W]			CG C0G	2.1 p	±0.05pF, ±0.1pF, ±0.25pF	442	200	0.2±0.02	R
EMK042 CG2R2[D-W]			CG C0G	2.2 p	±0.05pF, ±0.1pF, ±0.25pF	444	200	0.2±0.02	R
EMK042 CG2R3[D-W]			CG C0G	2.3 p	±0.05pF, ±0.1pF, ±0.25pF	446	200	0.2±0.02	R

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■ PARTS NUMBER

CERAMIC CAPACITORS

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance	Q (at 1MHz) min	HTLT		Thickness <sup>*3</sup> [mm]	Soldering R:Reflow W:Wave
							Rated voltage x %			
EMK042 CG2R4□D-W		16	CG COG	2.4 p	±0.05pF, ±0.1pF, ±0.25pF	448	200	0.2±0.02	R	
EMK042 CG2R5□D-W			CG COG	2.5 p	±0.05pF, ±0.1pF, ±0.25pF	450	200	0.2±0.02	R	
EMK042 CG2R6□D-W			CG COG	2.6 p	±0.05pF, ±0.1pF, ±0.25pF	452	200	0.2±0.02	R	
EMK042 CG2R7□D-W			CG COG	2.7 p	±0.05pF, ±0.1pF, ±0.25pF	454	200	0.2±0.02	R	
EMK042 CG2R8□D-W			CG COG	2.8 p	±0.05pF, ±0.1pF, ±0.25pF	456	200	0.2±0.02	R	
EMK042 CG2R9□D-W			CG COG	2.9 p	±0.05pF, ±0.1pF, ±0.25pF	458	200	0.2±0.02	R	
EMK042 CG030□D-W			CG COG	3 p	±0.05pF, ±0.1pF, ±0.25pF	460	200	0.2±0.02	R	
EMK042 CG3R1□D-W			CG COG	3.1 p	±0.1pF, ±0.25pF	462	200	0.2±0.02	R	
EMK042 CG3R2□D-W			CG COG	3.2 p	±0.1pF, ±0.25pF	464	200	0.2±0.02	R	
EMK042 CG3R3□D-W			CG COG	3.3 p	±0.1pF, ±0.25pF	466	200	0.2±0.02	R	
EMK042 CG3R4□D-W			CG COG	3.4 p	±0.1pF, ±0.25pF	468	200	0.2±0.02	R	
EMK042 CG3R5□D-W			CG COG	3.5 p	±0.1pF, ±0.25pF	470	200	0.2±0.02	R	
EMK042 CG3R6□D-W			CG COG	3.6 p	±0.1pF, ±0.25pF	472	200	0.2±0.02	R	
EMK042 CG3R7□D-W			CG COG	3.7 p	±0.1pF, ±0.25pF	474	200	0.2±0.02	R	
EMK042 CG3R8□D-W			CG COG	3.8 p	±0.1pF, ±0.25pF	476	200	0.2±0.02	R	
EMK042 CG3R9□D-W			CG COG	3.9 p	±0.1pF, ±0.25pF	478	200	0.2±0.02	R	
EMK042 CG040□D-W			CG COG	4 p	±0.1pF, ±0.25pF	480	200	0.2±0.02	R	
EMK042 CG4R1□D-W			CG COG	4.1 p	±0.1pF, ±0.25pF	482	200	0.2±0.02	R	
EMK042 CG4R2□D-W			CG COG	4.2 p	±0.1pF, ±0.25pF	484	200	0.2±0.02	R	
EMK042 CG4R3□D-W			CG COG	4.3 p	±0.1pF, ±0.25pF	486	200	0.2±0.02	R	
EMK042 CG4R4□D-W			CG COG	4.4 p	±0.1pF, ±0.25pF	488	200	0.2±0.02	R	
EMK042 CG4R5□D-W			CG COG	4.5 p	±0.1pF, ±0.25pF	490	200	0.2±0.02	R	
EMK042 CG4R6□D-W			CG COG	4.6 p	±0.1pF, ±0.25pF	492	200	0.2±0.02	R	
EMK042 CG4R7□D-W			CG COG	4.7 p	±0.1pF, ±0.25pF	494	200	0.2±0.02	R	
EMK042 CG4R8□D-W			CG COG	4.8 p	±0.1pF, ±0.25pF	496	200	0.2±0.02	R	
EMK042 CG4R9□D-W			CG COG	4.9 p	±0.1pF, ±0.25pF	498	200	0.2±0.02	R	
EMK042 CG050□D-W			CG COG	5 p	±0.1pF, ±0.25pF	500	200	0.2±0.02	R	
EMK042 CG5R1□D-W			CG COG	5.1 p	±0.1pF, ±0.25pF, ±0.5pF	502	200	0.2±0.02	R	
EMK042 CG5R2□D-W			CG COG	5.2 p	±0.1pF, ±0.25pF, ±0.5pF	504	200	0.2±0.02	R	
EMK042 CG5R3□D-W			CG COG	5.3 p	±0.1pF, ±0.25pF, ±0.5pF	506	200	0.2±0.02	R	
EMK042 CG5R4□D-W			CG COG	5.4 p	±0.1pF, ±0.25pF, ±0.5pF	508	200	0.2±0.02	R	
EMK042 CG5R5□D-W			CG COG	5.5 p	±0.1pF, ±0.25pF, ±0.5pF	510	200	0.2±0.02	R	
EMK042 CG5R6□D-W			CG COG	5.6 p	±0.1pF, ±0.25pF, ±0.5pF	512	200	0.2±0.02	R	
EMK042 CG5R7□D-W			CG COG	5.7 p	±0.1pF, ±0.25pF, ±0.5pF	514	200	0.2±0.02	R	
EMK042 CG5R8□D-W			CG COG	5.8 p	±0.1pF, ±0.25pF, ±0.5pF	516	200	0.2±0.02	R	
EMK042 CG5R9□D-W			CG COG	5.9 p	±0.1pF, ±0.25pF, ±0.5pF	518	200	0.2±0.02	R	
EMK042 CG060□D-W			CG COG	6 p	±0.1pF, ±0.25pF, ±0.5pF	520	200	0.2±0.02	R	
EMK042 CG6R1□D-W			CG COG	6.1 p	±0.1pF, ±0.25pF, ±0.5pF	522	200	0.2±0.02	R	
EMK042 CG6R2□D-W			CG COG	6.2 p	±0.1pF, ±0.25pF, ±0.5pF	524	200	0.2±0.02	R	
EMK042 CG6R3□D-W			CG COG	6.3 p	±0.1pF, ±0.25pF, ±0.5pF	526	200	0.2±0.02	R	
EMK042 CG6R4□D-W			CG COG	6.4 p	±0.1pF, ±0.25pF, ±0.5pF	528	200	0.2±0.02	R	
EMK042 CG6R5□D-W			CG COG	6.5 p	±0.1pF, ±0.25pF, ±0.5pF	530	200	0.2±0.02	R	
EMK042 CG6R6□D-W			CG COG	6.6 p	±0.1pF, ±0.25pF, ±0.5pF	532	200	0.2±0.02	R	
EMK042 CG6R7□D-W			CG COG	6.7 p	±0.1pF, ±0.25pF, ±0.5pF	534	200	0.2±0.02	R	
EMK042 CG6R8□D-W			CG COG	6.8 p	±0.1pF, ±0.25pF, ±0.5pF	536	200	0.2±0.02	R	
EMK042 CG6R9□D-W			CG COG	6.9 p	±0.1pF, ±0.25pF, ±0.5pF	538	200	0.2±0.02	R	
EMK042 CG070□D-W			CG COG	7 p	±0.1pF, ±0.25pF, ±0.5pF	540	200	0.2±0.02	R	
EMK042 CG7R1□D-W			CG COG	7.1 p	±0.1pF, ±0.25pF, ±0.5pF	542	200	0.2±0.02	R	
EMK042 CG7R2□D-W			CG COG	7.2 p	±0.1pF, ±0.25pF, ±0.5pF	544	200	0.2±0.02	R	
EMK042 CG7R3□D-W			CG COG	7.3 p	±0.1pF, ±0.25pF, ±0.5pF	546	200	0.2±0.02	R	
EMK042 CG7R4□D-W			CG COG	7.4 p	±0.1pF, ±0.25pF, ±0.5pF	548	200	0.2±0.02	R	
EMK042 CG7R5□D-W			CG COG	7.5 p	±0.1pF, ±0.25pF, ±0.5pF	550	200	0.2±0.02	R	
EMK042 CG7R6□D-W			CG COG	7.6 p	±0.1pF, ±0.25pF, ±0.5pF	552	200	0.2±0.02	R	
EMK042 CG7R7□D-W			CG COG	7.7 p	±0.1pF, ±0.25pF, ±0.5pF	554	200	0.2±0.02	R	
EMK042 CG7R8□D-W			CG COG	7.8 p	±0.1pF, ±0.25pF, ±0.5pF	556	200	0.2±0.02	R	
EMK042 CG7R9□D-W			CG COG	7.9 p	±0.1pF, ±0.25pF, ±0.5pF	558	200	0.2±0.02	R	
EMK042 CG080□D-W			CG COG	8 p	±0.1pF, ±0.25pF, ±0.5pF	560	200	0.2±0.02	R	
EMK042 CG8R1□D-W			CG COG	8.1 p	±0.1pF, ±0.25pF, ±0.5pF	562	200	0.2±0.02	R	
EMK042 CG8R2□D-W			CG COG	8.2 p	±0.1pF, ±0.25pF, ±0.5pF	564	200	0.2±0.02	R	
EMK042 CG8R3□D-W			CG COG	8.3 p	±0.1pF, ±0.25pF, ±0.5pF	566	200	0.2±0.02	R	
EMK042 CG8R4□D-W			CG COG	8.4 p	±0.1pF, ±0.25pF, ±0.5pF	568	200	0.2±0.02	R	
EMK042 CG8R5□D-W			CG COG	8.5 p	±0.1pF, ±0.25pF, ±0.5pF	570	200	0.2±0.02	R	
EMK042 CG8R6□D-W			CG COG	8.6 p	±0.1pF, ±0.25pF, ±0.5pF	572	200	0.2±0.02	R	
EMK042 CG8R7□D-W			CG COG	8.7 p	±0.1pF, ±0.25pF, ±0.5pF	574	200	0.2±0.02	R	
EMK042 CG8R8□D-W			CG COG	8.8 p	±0.1pF, ±0.25pF, ±0.5pF	576	200	0.2±0.02	R	
EMK042 CG8R9□D-W			CG COG	8.9 p	±0.1pF, ±0.25pF, ±0.5pF	578	200	0.2±0.02	R	
EMK042 CG090□D-W			CG COG	9 p	±0.1pF, ±0.25pF, ±0.5pF	580	200	0.2±0.02	R	
EMK042 CG9R1□D-W			CG COG	9.1 p	±0.1pF, ±0.25pF, ±0.5pF	582	200	0.2±0.02	R	
EMK042 CG9R2□D-W			CG COG	9.2 p	±0.1pF, ±0.25pF, ±0.5pF	584	200	0.2±0.02	R	
EMK042 CG9R3□D-W			CG COG	9.3 p	±0.1pF, ±0.25pF, ±0.5pF	586	200	0.2±0.02	R	
EMK042 CG9R4□D-W			CG COG	9.4 p	±0.1pF, ±0.25pF, ±0.5pF	588	200	0.2±0.02	R	
EMK042 CG9R5□D-W			CG COG	9.5 p	±0.1pF, ±0.25pF, ±0.5pF	590	200	0.2±0.02	R	
EMK042 CG9R6□D-W			CG COG	9.6 p	±0.1pF, ±0.25pF, ±0.5pF	592	200	0.2±0.02	R	
EMK042 CG9R7□D-W			CG COG	9.7 p	±0.1pF, ±0.25pF, ±0.5pF	594	200	0.2±0.02	R	
EMK042 CG9R8□D-W			CG COG	9.8 p	±0.1pF, ±0.25pF, ±0.5pF	596	200	0.2±0.02	R	
EMK042 CG9R9□D-W			CG COG	9.9 p	±0.1pF, ±0.25pF, ±0.5pF	598	200	0.2±0.02	R	
EMK042 CG100DD-W			CG COG	10 p	±0.5pF	600	200	0.2±0.02	R	
EMK042 CG110JD-W			CG COG	11 p	±5%	620	200	0.2±0.02	R	
EMK042 CG120JD-W			CG COG	12 p	±5%	640	200	0.2±0.02	R	
EMK042 CG130JD-W			CG COG	13 p	±5%	660	200	0.2±0.02	R	
EMK042 CG150JD-W			CG COG	15 p	±5%	700	200	0.2±0.02	R	
EMK042 CG160JC-W			CG COG	16 p	±5%	720	200	0.2±0.02	R	
EMK042 CG180JC-W			CG COG	18 p	±5%	760	200	0.2±0.02	R	
EMK042 CG200JC-W			CG COG	20 p	±5%	800	200	0.2±0.02	R	
EMK042 CG220JC-W			CG COG	22 p	±5%	840	200	0.2±0.02	R	
EMK042 CG240JC-W			CG COG	24 p	±5%	880	200	0.2±0.02	R	
EMK042 CG270JC-W			CG COG	27 p	±5%	940	200	0.2±0.02	R	
EMK042 CG300JC-W			CG COG	30 p	±5%	1000	200	0.2±0.02	R	
EMK042 CG330JC-W			CG COG	33 p	±5%	1000	200	0.2±0.02	R	
EMK042 CG360JC-W			CG COG	36 p	±5%	1000	200	0.2±0.02	R	

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■ PARTS NUMBER

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance	Q (at 1MHz) min	HTLT	Thickness*3 [mm]	Soldering R:Reflow W:Wave	
								Rated voltage x %			
EMK042	CG390JC-W	16	CG	C0G	39 p	±5%	1000	200	0.2±0.02	R	
EMK042	CG430JC-W		CG	C0G	43 p	±5%	1000	200	0.2±0.02	R	
EMK042	CG470JC-W		CG	C0G	47 p	±5%	1000	200	0.2±0.02	R	
EMK042	CG510JC-W		CG	C0G	51 p	±5%	1000	200	0.2±0.02	R	
EMK042	CG560JC-W		CG	C0G	56 p	±5%	1000	200	0.2±0.02	R	
EMK042	CG620JC-W		CG	C0G	62 p	±5%	1000	200	0.2±0.02	R	
EMK042	CG680JC-W		CG	C0G	68 p	±5%	1000	200	0.2±0.02	R	
EMK042	CG750JC-W		CG	C0G	75 p	±5%	1000	200	0.2±0.02	R	
EMK042	CG820JC-W		CG	C0G	82 p	±5%	1000	200	0.2±0.02	R	
EMK042	CG910JC-W		CG	C0G	91 p	±5%	1000	200	0.2±0.02	R	
EMK042	CG101JC-W		CG	C0G	100 p	±5%	1000	200	0.2±0.02	R	
EMK042	CG221JC-W		CG	C0G	220 p	±5%	1000	200	0.2±0.02	R	
LMK042	CG221JC-W		10	CG	C0G	220 p	±5%	1000	200	0.2±0.02	R

● 063TYPE

[Temperature Characteristic CG : CG/C0G] 0.3mm thickness (T)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance	Q (at 1MHz) min	HTLT	Thickness*3 [mm]	Soldering R:Reflow W:Wave
								Rated voltage x %		
UMK063	CG0R2[T-F]	50	CG	C0G	0.2 p	±0.1pF, ±0.25pF	404	200	0.3±0.03	R
UMK063	CG0R3[T-F]		CG	C0G	0.3 p	±0.1pF, ±0.25pF	406	200	0.3±0.03	R
UMK063	CG0R4[T-F]		CG	C0G	0.4 p	±0.1pF, ±0.25pF	408	200	0.3±0.03	R
UMK063	CG0R5[T-F]		CG	C0G	0.5 p	±0.1pF, ±0.25pF	410	200	0.3±0.03	R
UMK063	CG0R6[T-F]		CG	C0G	0.6 p	±0.1pF, ±0.25pF	412	200	0.3±0.03	R
UMK063	CG0R7[T-F]		CG	C0G	0.7 p	±0.1pF, ±0.25pF	414	200	0.3±0.03	R
UMK063	CGR75[T-F]		CG	C0G	0.75 p	±0.1pF, ±0.25pF	415	200	0.3±0.03	R
UMK063	CG0R8[T-F]		CG	C0G	0.8 p	±0.1pF, ±0.25pF	416	200	0.3±0.03	R
UMK063	CG0R9[T-F]		CG	C0G	0.9 p	±0.1pF, ±0.25pF	418	200	0.3±0.03	R
UMK063	CG010[T-F]		CG	C0G	1 p	±0.1pF, ±0.25pF	420	200	0.3±0.03	R
UMK063	CG1R1[T-F]		CG	C0G	1.1 p	±0.1pF, ±0.25pF	422	200	0.3±0.03	R
UMK063	CG1R2[T-F]		CG	C0G	1.2 p	±0.1pF, ±0.25pF	424	200	0.3±0.03	R
UMK063	CG1R3[T-F]		CG	C0G	1.3 p	±0.1pF, ±0.25pF	426	200	0.3±0.03	R
UMK063	CG1R4[T-F]		CG	C0G	1.4 p	±0.1pF, ±0.25pF	428	200	0.3±0.03	R
UMK063	CG1R5[T-F]		CG	C0G	1.5 p	±0.1pF, ±0.25pF	430	200	0.3±0.03	R
UMK063	CG1R6[T-F]		CG	C0G	1.6 p	±0.1pF, ±0.25pF	432	200	0.3±0.03	R
UMK063	CG1R7[T-F]		CG	C0G	1.7 p	±0.1pF, ±0.25pF	434	200	0.3±0.03	R
UMK063	CG1R8[T-F]		CG	C0G	1.8 p	±0.1pF, ±0.25pF	436	200	0.3±0.03	R
UMK063	CG1R9[T-F]		CG	C0G	1.9 p	±0.1pF, ±0.25pF	438	200	0.3±0.03	R
UMK063	CG020[T-F]		CG	C0G	2 p	±0.1pF, ±0.25pF	440	200	0.3±0.03	R
UMK063	CG2R1[T-F]		CG	C0G	2.1 p	±0.1pF, ±0.25pF	442	200	0.3±0.03	R
UMK063	CG2R2[T-F]		CG	C0G	2.2 p	±0.1pF, ±0.25pF	444	200	0.3±0.03	R
UMK063	CG2R3[T-F]		CG	C0G	2.3 p	±0.1pF, ±0.25pF	446	200	0.3±0.03	R
UMK063	CG2R4[T-F]		CG	C0G	2.4 p	±0.1pF, ±0.25pF	448	200	0.3±0.03	R
UMK063	CG2R5[T-F]		CG	C0G	2.5 p	±0.1pF, ±0.25pF	450	200	0.3±0.03	R
UMK063	CG2R6[T-F]		CG	C0G	2.6 p	±0.1pF, ±0.25pF	452	200	0.3±0.03	R
UMK063	CG2R7[T-F]		CG	C0G	2.7 p	±0.1pF, ±0.25pF	454	200	0.3±0.03	R
UMK063	CG2R8[T-F]		CG	C0G	2.8 p	±0.1pF, ±0.25pF	456	200	0.3±0.03	R
UMK063	CG2R9[T-F]		CG	C0G	2.9 p	±0.1pF, ±0.25pF	458	200	0.3±0.03	R
UMK063	CG030[T-F]		CG	C0G	3 p	±0.1pF, ±0.25pF	460	200	0.3±0.03	R
UMK063	CG3R1[T-F]		CG	C0G	3.1 p	±0.1pF, ±0.25pF	462	200	0.3±0.03	R
UMK063	CG3R2[T-F]		CG	C0G	3.2 p	±0.1pF, ±0.25pF	464	200	0.3±0.03	R
UMK063	CG3R3[T-F]		CG	C0G	3.3 p	±0.1pF, ±0.25pF	466	200	0.3±0.03	R
UMK063	CG3R4[T-F]		CG	C0G	3.4 p	±0.1pF, ±0.25pF	468	200	0.3±0.03	R
UMK063	CG3R5[T-F]		CG	C0G	3.5 p	±0.1pF, ±0.25pF	470	200	0.3±0.03	R
UMK063	CG3R6[T-F]		CG	C0G	3.6 p	±0.1pF, ±0.25pF	472	200	0.3±0.03	R
UMK063	CG3R7[T-F]		CG	C0G	3.7 p	±0.1pF, ±0.25pF	474	200	0.3±0.03	R
UMK063	CG3R8[T-F]		CG	C0G	3.8 p	±0.1pF, ±0.25pF	476	200	0.3±0.03	R
UMK063	CG3R9[T-F]		CG	C0G	3.9 p	±0.1pF, ±0.25pF	478	200	0.3±0.03	R
UMK063	CG040[T-F]		CG	C0G	4 p	±0.1pF, ±0.25pF	480	200	0.3±0.03	R
UMK063	CG4R1[T-F]		CG	C0G	4.1 p	±0.1pF, ±0.25pF	482	200	0.3±0.03	R
UMK063	CG4R2[T-F]		CG	C0G	4.2 p	±0.1pF, ±0.25pF	484	200	0.3±0.03	R
UMK063	CG4R3[T-F]		CG	C0G	4.3 p	±0.1pF, ±0.25pF	486	200	0.3±0.03	R
UMK063	CG4R4[T-F]		CG	C0G	4.4 p	±0.1pF, ±0.25pF	488	200	0.3±0.03	R
UMK063	CG4R5[T-F]		CG	C0G	4.5 p	±0.1pF, ±0.25pF	490	200	0.3±0.03	R
UMK063	CG4R6[T-F]		CG	C0G	4.6 p	±0.1pF, ±0.25pF	492	200	0.3±0.03	R
UMK063	CG4R7[T-F]		CG	C0G	4.7 p	±0.1pF, ±0.25pF	494	200	0.3±0.03	R
UMK063	CG4R8[T-F]		CG	C0G	4.8 p	±0.1pF, ±0.25pF	496	200	0.3±0.03	R
UMK063	CG4R9[T-F]		CG	C0G	4.9 p	±0.1pF, ±0.25pF	498	200	0.3±0.03	R
UMK063	CG050[T-F]		CG	C0G	5 p	±0.1pF, ±0.25pF	500	200	0.3±0.03	R
UMK063	CG5R1[T-F]	CG	C0G	5.1 p	±0.1pF, ±0.25pF, ±0.5pF	502	200	0.3±0.03	R	
UMK063	CG5R2[T-F]	CG	C0G	5.2 p	±0.1pF, ±0.25pF, ±0.5pF	504	200	0.3±0.03	R	
UMK063	CG5R3[T-F]	CG	C0G	5.3 p	±0.1pF, ±0.25pF, ±0.5pF	506	200	0.3±0.03	R	
UMK063	CG5R4[T-F]	CG	C0G	5.4 p	±0.1pF, ±0.25pF, ±0.5pF	508	200	0.3±0.03	R	
UMK063	CG5R5[T-F]	CG	C0G	5.5 p	±0.1pF, ±0.25pF, ±0.5pF	510	200	0.3±0.03	R	
UMK063	CG5R6[T-F]	CG	C0G	5.6 p	±0.1pF, ±0.25pF, ±0.5pF	512	200	0.3±0.03	R	
UMK063	CG5R7[T-F]	CG	C0G	5.7 p	±0.1pF, ±0.25pF, ±0.5pF	514	200	0.3±0.03	R	
UMK063	CG5R8[T-F]	CG	C0G	5.8 p	±0.1pF, ±0.25pF, ±0.5pF	516	200	0.3±0.03	R	
UMK063	CG5R9[T-F]	CG	C0G	5.9 p	±0.1pF, ±0.25pF, ±0.5pF	518	200	0.3±0.03	R	
UMK063	CG060[T-F]	CG	C0G	6 p	±0.1pF, ±0.25pF, ±0.5pF	520	200	0.3±0.03	R	
UMK063	CG6R1[T-F]	CG	C0G	6.1 p	±0.1pF, ±0.25pF, ±0.5pF	522	200	0.3±0.03	R	
UMK063	CG6R2[T-F]	CG	C0G	6.2 p	±0.1pF, ±0.25pF, ±0.5pF	524	200	0.3±0.03	R	
UMK063	CG6R3[T-F]	CG	C0G	6.3 p	±0.1pF, ±0.25pF, ±0.5pF	526	200	0.3±0.03	R	
UMK063	CG6R4[T-F]	CG	C0G	6.4 p	±0.1pF, ±0.25pF, ±0.5pF	528	200	0.3±0.03	R	
UMK063	CG6R5[T-F]	CG	C0G	6.5 p	±0.1pF, ±0.25pF, ±0.5pF	530	200	0.3±0.03	R	
UMK063	CG6R6[T-F]	CG	C0G	6.6 p	±0.1pF, ±0.25pF, ±0.5pF	532	200	0.3±0.03	R	
UMK063	CG6R7[T-F]	CG	C0G	6.7 p	±0.1pF, ±0.25pF, ±0.5pF	534	200	0.3±0.03	R	
UMK063	CG6R8[T-F]	CG	C0G	6.8 p	±0.1pF, ±0.25pF, ±0.5pF	536	200	0.3±0.03	R	
UMK063	CG6R9[T-F]	CG	C0G	6.9 p	±0.1pF, ±0.25pF, ±0.5pF	538	200	0.3±0.03	R	

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Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance	Q (at 1MHz) min	HTLT	Thickness <sup>93</sup> [mm]	Soldering R:Reflow W:Wave
								Rated voltage x %		
UMK063 CG070□T-F		50	CG	COG	7 p	±0.1pF, ±0.25pF, ±0.5pF	540	200	0.3±0.03	R
UMK063 CG7R1□T-F			CG	COG	7.1 p	±0.1pF, ±0.25pF, ±0.5pF	542	200	0.3±0.03	R
UMK063 CG7R2□T-F			CG	COG	7.2 p	±0.1pF, ±0.25pF, ±0.5pF	544	200	0.3±0.03	R
UMK063 CG7R3□T-F			CG	COG	7.3 p	±0.1pF, ±0.25pF, ±0.5pF	546	200	0.3±0.03	R
UMK063 CG7R4□T-F			CG	COG	7.4 p	±0.1pF, ±0.25pF, ±0.5pF	548	200	0.3±0.03	R
UMK063 CG7R5□T-F			CG	COG	7.5 p	±0.1pF, ±0.25pF, ±0.5pF	550	200	0.3±0.03	R
UMK063 CG7R6□T-F			CG	COG	7.6 p	±0.1pF, ±0.25pF, ±0.5pF	552	200	0.3±0.03	R
UMK063 CG7R7□T-F			CG	COG	7.7 p	±0.1pF, ±0.25pF, ±0.5pF	554	200	0.3±0.03	R
UMK063 CG7R8□T-F			CG	COG	7.8 p	±0.1pF, ±0.25pF, ±0.5pF	556	200	0.3±0.03	R
UMK063 CG7R9□T-F			CG	COG	7.9 p	±0.1pF, ±0.25pF, ±0.5pF	558	200	0.3±0.03	R
UMK063 CG080□T-F			CG	COG	8 p	±0.1pF, ±0.25pF, ±0.5pF	560	200	0.3±0.03	R
UMK063 CG8R1□T-F			CG	COG	8.1 p	±0.1pF, ±0.25pF, ±0.5pF	562	200	0.3±0.03	R
UMK063 CG8R2□T-F			CG	COG	8.2 p	±0.1pF, ±0.25pF, ±0.5pF	564	200	0.3±0.03	R
UMK063 CG8R3□T-F			CG	COG	8.3 p	±0.1pF, ±0.25pF, ±0.5pF	566	200	0.3±0.03	R
UMK063 CG8R4□T-F			CG	COG	8.4 p	±0.1pF, ±0.25pF, ±0.5pF	568	200	0.3±0.03	R
UMK063 CG8R5□T-F			CG	COG	8.5 p	±0.1pF, ±0.25pF, ±0.5pF	570	200	0.3±0.03	R
UMK063 CG8R6□T-F			CG	COG	8.6 p	±0.1pF, ±0.25pF, ±0.5pF	572	200	0.3±0.03	R
UMK063 CG8R7□T-F			CG	COG	8.7 p	±0.1pF, ±0.25pF, ±0.5pF	574	200	0.3±0.03	R
UMK063 CG8R8□T-F			CG	COG	8.8 p	±0.1pF, ±0.25pF, ±0.5pF	576	200	0.3±0.03	R
UMK063 CG8R9□T-F			CG	COG	8.9 p	±0.1pF, ±0.25pF, ±0.5pF	578	200	0.3±0.03	R
UMK063 CG090□T-F			CG	COG	9 p	±0.1pF, ±0.25pF, ±0.5pF	580	200	0.3±0.03	R
UMK063 CG9R1□T-F			CG	COG	9.1 p	±0.1pF, ±0.25pF, ±0.5pF	582	200	0.3±0.03	R
UMK063 CG9R2□T-F			CG	COG	9.2 p	±0.1pF, ±0.25pF, ±0.5pF	584	200	0.3±0.03	R
UMK063 CG9R3□T-F			CG	COG	9.3 p	±0.1pF, ±0.25pF, ±0.5pF	586	200	0.3±0.03	R
UMK063 CG9R4□T-F			CG	COG	9.4 p	±0.1pF, ±0.25pF, ±0.5pF	588	200	0.3±0.03	R
UMK063 CG9R5□T-F			CG	COG	9.5 p	±0.1pF, ±0.25pF, ±0.5pF	590	200	0.3±0.03	R
UMK063 CG9R6□T-F			CG	COG	9.6 p	±0.1pF, ±0.25pF, ±0.5pF	592	200	0.3±0.03	R
UMK063 CG9R7□T-F			CG	COG	9.7 p	±0.1pF, ±0.25pF, ±0.5pF	594	200	0.3±0.03	R
UMK063 CG9R8□T-F			CG	COG	9.8 p	±0.1pF, ±0.25pF, ±0.5pF	596	200	0.3±0.03	R
UMK063 CG9R9□T-F			CG	COG	9.9 p	±0.1pF, ±0.25pF, ±0.5pF	598	200	0.3±0.03	R
UMK063 CG100DT-F			CG	COG	10 p	±0.5pF	600	200	0.3±0.03	R
UMK063 CG110JT-F			CG	COG	11 p	±5%	620	200	0.3±0.03	R
UMK063 CG120JT-F			CG	COG	12 p	±5%	640	200	0.3±0.03	R
UMK063 CG130JT-F			CG	COG	13 p	±5%	660	200	0.3±0.03	R
UMK063 CG150JT-F			CG	COG	15 p	±5%	700	200	0.3±0.03	R
UMK063 CG160JT-F			CG	COG	16 p	±5%	720	200	0.3±0.03	R
UMK063 CG180JT-F			CG	COG	18 p	±5%	760	200	0.3±0.03	R
UMK063 CG200JT-F			CG	COG	20 p	±5%	800	200	0.3±0.03	R
UMK063 CG220JT-F			CG	COG	22 p	±5%	840	200	0.3±0.03	R
UMK063 CG240JT-F			CG	COG	24 p	±5%	880	200	0.3±0.03	R
UMK063 CG270JT-F			CG	COG	27 p	±5%	940	200	0.3±0.03	R
UMK063 CG300JT-F			CG	COG	30 p	±5%	1000	200	0.3±0.03	R
UMK063 CG330JT-F			CG	COG	33 p	±5%	1000	200	0.3±0.03	R
UMK063 CG360JT-F			CG	COG	36 p	±5%	1000	200	0.3±0.03	R
UMK063 CG390JT-F			CG	COG	39 p	±5%	1000	200	0.3±0.03	R
UMK063 CG430JT-F			CG	COG	43 p	±5%	1000	200	0.3±0.03	R
UMK063 CG470JT-F			CG	COG	47 p	±5%	1000	200	0.3±0.03	R
UMK063 CG510JT-F			CG	COG	51 p	±5%	1000	200	0.3±0.03	R
UMK063 CG560JT-F			CG	COG	56 p	±5%	1000	200	0.3±0.03	R
UMK063 CG620JT-F			CG	COG	62 p	±5%	1000	200	0.3±0.03	R
UMK063 CG680JT-F		CG	COG	68 p	±5%	1000	200	0.3±0.03	R	
UMK063 CG750JT-F		CG	COG	75 p	±5%	1000	200	0.3±0.03	R	
UMK063 CG820JT-F		CG	COG	82 p	±5%	1000	200	0.3±0.03	R	
UMK063 CG910JT-F		CG	COG	91 p	±5%	1000	200	0.3±0.03	R	
UMK063 CG101JT-F		CG	COG	100 p	±5%	1000	200	0.3±0.03	R	
UMK063 CG111JT-F		CG	COG	110 p	±5%	1000	200	0.3±0.03	R	
UMK063 CG121JT-F		CG	COG	120 p	±5%	1000	200	0.3±0.03	R	
UMK063 CG131JT-F		CG	COG	130 p	±5%	1000	200	0.3±0.03	R	
UMK063 CG151JT-F		CG	COG	150 p	±5%	1000	200	0.3±0.03	R	
UMK063 CG181JT-F		CG	COG	180 p	±5%	1000	200	0.3±0.03	R	
UMK063 CG201JT-F		CG	COG	200 p	±5%	1000	200	0.3±0.03	R	
UMK063 CG221JT-F		CG	COG	220 p	±5%	1000	200	0.3±0.03	R	
TMK063 CG241JT-F		CG	COG	240 p	±5%	1000	200	0.3±0.03	R	
TMK063 CG271JT-F		CG	COG	270 p	±5%	1000	200	0.3±0.03	R	
TMK063 CG301JT-F		CG	COG	300 p	±5%	1000	200	0.3±0.03	R	
TMK063 CG331JT-F		CG	COG	330 p	±5%	1000	200	0.3±0.03	R	
TMK063 CG361JT-F		CG	COG	360 p	±5%	1000	200	0.3±0.03	R	
TMK063 CG391JT-F		CG	COG	390 p	±5%	1000	200	0.3±0.03	R	
TMK063 CG431JT-F		CG	COG	430 p	±5%	1000	200	0.3±0.03	R	
TMK063 CG471JT-F		CG	COG	470 p	±5%	1000	200	0.3±0.03	R	
TMK063 CG511JT-F		CG	COG	510 p	±5%	1000	200	0.3±0.03	R	
TMK063 CG561JT-F		CG	COG	560 p	±5%	1000	200	0.3±0.03	R	
TMK063 CG621JT-F		CG	COG	620 p	±5%	1000	200	0.3±0.03	R	
TMK063 CG681JT-F		CG	COG	680 p	±5%	1000	200	0.3±0.03	R	
TMK063 CG751JT-F		CG	COG	750 p	±5%	1000	200	0.3±0.03	R	
TMK063 CG821JT-F		CG	COG	820 p	±5%	1000	200	0.3±0.03	R	
TMK063 CG911JT-F		CG	COG	910 p	±5%	1000	200	0.3±0.03	R	
TMK063 CG102JT-F		CG	COG	1000 p	±5%	1000	200	0.3±0.03	R	

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105TYPE

【Temperature Characteristic CG : CG/C0G】 0.5mm thickness (V)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance	Q (at 1MHz) min	HTLT	Thickness*3 [mm]	Soldering R:Reflow W:Wave
								Rated voltage x %		
UMK105 CG0R5CV-F		50	CG	C0G	0.5 p	±0.25pF	410	200	0.5±0.05	R
UMK105 CG010CV-F			CG	C0G	1 p	±0.25pF	420	200	0.5±0.05	R
UMK105 CG1R5CV-F			CG	C0G	1.5 p	±0.25pF	430	200	0.5±0.05	R
UMK105 CG020CV-F			CG	C0G	2 p	±0.25pF	440	200	0.5±0.05	R
UMK105 CG030CV-F			CG	C0G	3 p	±0.25pF	460	200	0.5±0.05	R
UMK105 CG040CV-F			CG	C0G	4 p	±0.25pF	480	200	0.5±0.05	R
UMK105 CG050CV-F			CG	C0G	5 p	±0.25pF	500	200	0.5±0.05	R
UMK105 CG060DV-F			CG	C0G	6 p	±0.5pF	520	200	0.5±0.05	R
UMK105 CG070DV-F			CG	C0G	7 p	±0.5pF	540	200	0.5±0.05	R
UMK105 CG080DV-F			CG	C0G	8 p	±0.5pF	560	200	0.5±0.05	R
UMK105 CG090DV-F			CG	C0G	9 p	±0.5pF	580	200	0.5±0.05	R
UMK105 CG100DV-F			CG	C0G	10 p	±0.5pF	600	200	0.5±0.05	R
UMK105 CG120JV-F			CG	C0G	12 p	±5%	640	200	0.5±0.05	R
UMK105 CG150JV-F			CG	C0G	15 p	±5%	700	200	0.5±0.05	R
UMK105 CG180JV-F			CG	C0G	18 p	±5%	760	200	0.5±0.05	R
UMK105 CG220JV-F			CG	C0G	22 p	±5%	840	200	0.5±0.05	R
UMK105 CG270JV-F			CG	C0G	27 p	±5%	940	200	0.5±0.05	R
UMK105 CG330JV-F			CG	C0G	33 p	±5%	1000	200	0.5±0.05	R
UMK105 CG390JV-F			CG	C0G	39 p	±5%	1000	200	0.5±0.05	R
UMK105 CG470JV-F			CG	C0G	47 p	±5%	1000	200	0.5±0.05	R
UMK105 CG560JV-F			CG	C0G	56 p	±5%	1000	200	0.5±0.05	R
UMK105 CG680JV-F			CG	C0G	68 p	±5%	1000	200	0.5±0.05	R
UMK105 CG820JV-F			CG	C0G	82 p	±5%	1000	200	0.5±0.05	R
UMK105 CG101JV-F			CG	C0G	100 p	±5%	1000	200	0.5±0.05	R
UMK105 CG121JV-F			CG	C0G	120 p	±5%	1000	200	0.5±0.05	R
UMK105 CG151JV-F			CG	C0G	150 p	±5%	1000	200	0.5±0.05	R
UMK105 CG181JV-F			CG	C0G	180 p	±5%	1000	200	0.5±0.05	R
UMK105 CG221JV-F			CG	C0G	220 p	±5%	1000	200	0.5±0.05	R
UMK105 CG271JV-F			CG	C0G	270 p	±5%	1000	200	0.5±0.05	R
UMK105 CG331JV-F			CG	C0G	330 p	±5%	1000	200	0.5±0.05	R
UMK105 CG391JV-F			CG	C0G	390 p	±5%	1000	200	0.5±0.05	R
UMK105 CG471JV-F			CG	C0G	470 p	±5%	1000	200	0.5±0.05	R
UMK105 CG561JV-F			CG	C0G	560 p	±5%	1000	200	0.5±0.05	R
UMK105 CG681JV-F			CG	C0G	680 p	±5%	1000	200	0.5±0.05	R
UMK105 CG821JV-F			CG	C0G	820 p	±5%	1000	200	0.5±0.05	R
UMK105 CG102JV-F			CG	C0G	1000 p	±5%	1000	200	0.5±0.05	R

【Temperature Characteristic UΔ : UΔ/U2Δ】 0.5mm thickness (V)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance	Q (at 1MHz) min	HTLT	Thickness*3 [mm]	Soldering R:Reflow W:Wave
								Rated voltage x %		
UMK105 UK0R5CV-F		50	UK	U2K	0.5 p	±0.25pF	410	200	0.5±0.05	R
UMK105 UK010CV-F			UK	U2K	1 p	±0.25pF	420	200	0.5±0.05	R
UMK105 UK1R5CV-F			UK	U2K	1.5 p	±0.25pF	430	200	0.5±0.05	R
UMK105 UK020CV-F			UK	U2K	2 p	±0.25pF	440	200	0.5±0.05	R
UMK105 UK030CV-F			UK	U2K	3 p	±0.25pF	460	200	0.5±0.05	R
UMK105 UJ040CV-F			UJ	U2J	4 p	±0.25pF	480	200	0.5±0.05	R
UMK105 UJ050CV-F			UJ	U2J	5 p	±0.25pF	500	200	0.5±0.05	R
UMK105 UJ060DV-F			UJ	U2J	6 p	±0.5pF	520	200	0.5±0.05	R
UMK105 UJ070DV-F			UJ	U2J	7 p	±0.5pF	540	200	0.5±0.05	R
UMK105 UJ080DV-F			UJ	U2J	8 p	±0.5pF	560	200	0.5±0.05	R
UMK105 UJ090DV-F			UJ	U2J	9 p	±0.5pF	580	200	0.5±0.05	R
UMK105 UJ100DV-F			UJ	U2J	10 p	±0.5pF	600	200	0.5±0.05	R
UMK105 UJ120JV-F			UJ	U2J	12 p	±5%	640	200	0.5±0.05	R
UMK105 UJ150JV-F			UJ	U2J	15 p	±5%	700	200	0.5±0.05	R
UMK105 UJ180JV-F			UJ	U2J	18 p	±5%	760	200	0.5±0.05	R
UMK105 UJ220JV-F			UJ	U2J	22 p	±5%	840	200	0.5±0.05	R
UMK105 UJ270JV-F			UJ	U2J	27 p	±5%	940	200	0.5±0.05	R
UMK105 UJ330JV-F			UJ	U2J	33 p	±5%	1000	200	0.5±0.05	R
UMK105 UJ390JV-F			UJ	U2J	39 p	±5%	1000	200	0.5±0.05	R
UMK105 UJ470JV-F			UJ	U2J	47 p	±5%	1000	200	0.5±0.05	R
UMK105 UJ560JV-F			UJ	U2J	56 p	±5%	1000	200	0.5±0.05	R
UMK105 UJ680JV-F			UJ	U2J	68 p	±5%	1000	200	0.5±0.05	R
UMK105 UJ820JV-F			UJ	U2J	82 p	±5%	1000	200	0.5±0.05	R
UMK105 UJ101JV-F			UJ	U2J	100 p	±5%	1000	200	0.5±0.05	R
UMK105 UJ121JV-F			UJ	U2J	120 p	±5%	1000	200	0.5±0.05	R
UMK105 UJ151JV-F			UJ	U2J	150 p	±5%	1000	200	0.5±0.05	R
UMK105 UJ181JV-F			UJ	U2J	180 p	±5%	1000	200	0.5±0.05	R
UMK105 UJ221JV-F			UJ	U2J	220 p	±5%	1000	200	0.5±0.05	R
UMK105 UJ271JV-F			UJ	U2J	270 p	±5%	1000	200	0.5±0.05	R
UMK105 UJ331JV-F			UJ	U2J	330 p	±5%	1000	200	0.5±0.05	R

【Temperature Characteristic SL】 0.5mm thickness (V)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance	Q (at 1MHz) min	HTLT	Thickness*3 [mm]	Soldering R:Reflow W:Wave
								Rated voltage x %		
UMK105 SL121JV-F		50	SL		120 p	±5%	1000	200	0.5±0.05	R
UMK105 SL151JV-F			SL		150 p	±5%	1000	200	0.5±0.05	R
UMK105 SL181JV-F			SL		180 p	±5%	1000	200	0.5±0.05	R
UMK105 SL221JV-F			SL		220 p	±5%	1000	200	0.5±0.05	R
UMK105 SL271JV-F			SL		270 p	±5%	1000	200	0.5±0.05	R
UMK105 SL331JV-F			SL		330 p	±5%	1000	200	0.5±0.05	R

▶ This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our product specification sheets. For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our website (<http://www.ty-top.com/>).

## Multilayer Ceramic Capacitors for High Frequency Applications (1GHz+)

## O21TYPE

[Temperature Characteristic CG : CG/C0G] 0.125mm thickness (K)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance	Q (at 1GHz) (min)	HTLT		Thickness <sup>※3</sup> [mm]	Soldering R:Reflow W:Wave
							Rated voltage x %			
TVS021 CG0R2□K-W		25	CG C0G	0.2 p	±0.05pF, ±0.1pF, ±0.25pF	260	200		0.125±0.013	R
TVS021 CG0R3□K-W			CG C0G	0.3 p	±0.05pF, ±0.1pF, ±0.25pF	260	200		0.125±0.013	R
TVS021 CG0R4□K-W			CG C0G	0.4 p	±0.05pF, ±0.1pF, ±0.25pF	260	200		0.125±0.013	R
TVS021 CG0R5□K-W			CG C0G	0.5 p	±0.05pF, ±0.1pF, ±0.25pF	260	200		0.125±0.013	R
TVS021 CG0R6□K-W			CG C0G	0.6 p	±0.05pF, ±0.1pF, ±0.25pF	260	200		0.125±0.013	R
TVS021 CG0R7□K-W			CG C0G	0.7 p	±0.05pF, ±0.1pF, ±0.25pF	260	200		0.125±0.013	R
TVS021 CGR75□K-W			CG C0G	0.75 p	±0.05pF, ±0.1pF, ±0.25pF	260	200		0.125±0.013	R
TVS021 CG0R8□K-W			CG C0G	0.8 p	±0.05pF, ±0.1pF, ±0.25pF	260	200		0.125±0.013	R
TVS021 CG0R9□K-W			CG C0G	0.9 p	±0.05pF, ±0.1pF, ±0.25pF	260	200		0.125±0.013	R
TVS021 CG010□K-W			CG C0G	1 p	±0.05pF, ±0.1pF, ±0.25pF	260	200		0.125±0.013	R
TVS021 CG1R1□K-W			CG C0G	1.1 p	±0.05pF, ±0.1pF, ±0.25pF	260	200		0.125±0.013	R
TVS021 CG1R2□K-W			CG C0G	1.2 p	±0.05pF, ±0.1pF, ±0.25pF	250	200		0.125±0.013	R
TVS021 CG1R3□K-W			CG C0G	1.3 p	±0.05pF, ±0.1pF, ±0.25pF	230	200		0.125±0.013	R
TVS021 CG1R4□K-W			CG C0G	1.4 p	±0.05pF, ±0.1pF, ±0.25pF	220	200		0.125±0.013	R
TVS021 CG1R5□K-W			CG C0G	1.5 p	±0.05pF, ±0.1pF, ±0.25pF	210	200		0.125±0.013	R
TVS021 CG1R6□K-W			CG C0G	1.6 p	±0.05pF, ±0.1pF, ±0.25pF	190	200		0.125±0.013	R
TVS021 CG1R7□K-W			CG C0G	1.7 p	±0.05pF, ±0.1pF, ±0.25pF	190	200		0.125±0.013	R
TVS021 CG1R8□K-W			CG C0G	1.8 p	±0.05pF, ±0.1pF, ±0.25pF	180	200		0.125±0.013	R
TVS021 CG1R9□K-W			CG C0G	1.9 p	±0.05pF, ±0.1pF, ±0.25pF	170	200		0.125±0.013	R
TVS021 CG020□K-W			CG C0G	2 p	±0.05pF, ±0.1pF, ±0.25pF	160	200		0.125±0.013	R
TVS021 CG2R1□K-W			CG C0G	2.1 p	±0.05pF, ±0.1pF, ±0.25pF	160	200		0.125±0.013	R
TVS021 CG2R2□K-W			CG C0G	2.2 p	±0.05pF, ±0.1pF, ±0.25pF	150	200		0.125±0.013	R
TVS021 CG2R3□K-W			CG C0G	2.3 p	±0.05pF, ±0.1pF, ±0.25pF	150	200		0.125±0.013	R
TVS021 CG2R4□K-W			CG C0G	2.4 p	±0.05pF, ±0.1pF, ±0.25pF	140	200		0.125±0.013	R
TVS021 CG2R5□K-W			CG C0G	2.5 p	±0.05pF, ±0.1pF, ±0.25pF	140	200		0.125±0.013	R
TVS021 CG2R6□K-W			CG C0G	2.6 p	±0.05pF, ±0.1pF, ±0.25pF	130	200		0.125±0.013	R
TVS021 CG2R7□K-W			CG C0G	2.7 p	±0.05pF, ±0.1pF, ±0.25pF	130	200		0.125±0.013	R
TVS021 CG2R8□K-W			CG C0G	2.8 p	±0.05pF, ±0.1pF, ±0.25pF	120	200		0.125±0.013	R
TVS021 CG2R9□K-W			CG C0G	2.9 p	±0.05pF, ±0.1pF, ±0.25pF	120	200		0.125±0.013	R
TVS021 CG030□K-W			CG C0G	3 p	±0.1pF, ±0.25pF, ±0.5pF	120	200		0.125±0.013	R
TVS021 CG3R1□K-W			CG C0G	3.1 p	±0.1pF, ±0.25pF, ±0.5pF	110	200		0.125±0.013	R
TVS021 CG3R2□K-W			CG C0G	3.2 p	±0.1pF, ±0.25pF, ±0.5pF	110	200		0.125±0.013	R
TVS021 CG3R3□K-W			CG C0G	3.3 p	±0.1pF, ±0.25pF, ±0.5pF	110	200		0.125±0.013	R
TVS021 CG3R4□K-W			CG C0G	3.4 p	±0.1pF, ±0.25pF, ±0.5pF	110	200		0.125±0.013	R
TVS021 CG3R5□K-W			CG C0G	3.5 p	±0.1pF, ±0.25pF, ±0.5pF	100	200		0.125±0.013	R
TVS021 CG3R6□K-W			CG C0G	3.6 p	±0.1pF, ±0.25pF, ±0.5pF	100	200		0.125±0.013	R
TVS021 CG3R7□K-W			CG C0G	3.7 p	±0.1pF, ±0.25pF, ±0.5pF	100	200		0.125±0.013	R
TVS021 CG3R8□K-W			CG C0G	3.8 p	±0.1pF, ±0.25pF, ±0.5pF	100	200		0.125±0.013	R
TVS021 CG3R9□K-W			CG C0G	3.9 p	±0.1pF, ±0.25pF, ±0.5pF	90	200		0.125±0.013	R
TVS021 CG040□K-W			CG C0G	4 p	±0.1pF, ±0.25pF, ±0.5pF	90	200		0.125±0.013	R
TVS021 CG4R1□K-W			CG C0G	4.1 p	±0.1pF, ±0.25pF, ±0.5pF	90	200		0.125±0.013	R
TVS021 CG4R2□K-W			CG C0G	4.2 p	±0.1pF, ±0.25pF, ±0.5pF	90	200		0.125±0.013	R
TVS021 CG4R3□K-W			CG C0G	4.3 p	±0.1pF, ±0.25pF, ±0.5pF	90	200		0.125±0.013	R
TVS021 CG4R4□K-W			CG C0G	4.4 p	±0.1pF, ±0.25pF, ±0.5pF	90	200		0.125±0.013	R
TVS021 CG4R5□K-W			CG C0G	4.5 p	±0.1pF, ±0.25pF, ±0.5pF	80	200		0.125±0.013	R
TVS021 CG4R6□K-W			CG C0G	4.6 p	±0.1pF, ±0.25pF, ±0.5pF	80	200		0.125±0.013	R
TVS021 CG4R7□K-W			CG C0G	4.7 p	±0.1pF, ±0.25pF, ±0.5pF	80	200		0.125±0.013	R
TVS021 CG4R8□K-W			CG C0G	4.8 p	±0.1pF, ±0.25pF, ±0.5pF	80	200		0.125±0.013	R
TVS021 CG4R9□K-W			CG C0G	4.9 p	±0.1pF, ±0.25pF, ±0.5pF	80	200		0.125±0.013	R
TVS021 CG050□K-W			CG C0G	5 p	±0.1pF, ±0.25pF, ±0.5pF	80	200		0.125±0.013	R
TVS021 CG5R1□K-W			CG C0G	5.1 p	±0.1pF, ±0.25pF, ±0.5pF	80	200		0.125±0.013	R
EVS021 CG5R2□K-W			CG C0G	5.2 p	±0.1pF, ±0.25pF, ±0.5pF	70	200		0.125±0.013	R
EVS021 CG5R3□K-W			CG C0G	5.3 p	±0.1pF, ±0.25pF, ±0.5pF	70	200		0.125±0.013	R
EVS021 CG5R4□K-W			CG C0G	5.4 p	±0.1pF, ±0.25pF, ±0.5pF	70	200		0.125±0.013	R
EVS021 CG5R5□K-W			CG C0G	5.5 p	±0.1pF, ±0.25pF, ±0.5pF	70	200		0.125±0.013	R
EVS021 CG5R6□K-W		CG C0G	5.6 p	±0.1pF, ±0.25pF, ±0.5pF	70	200		0.125±0.013	R	
EVS021 CG5R7□K-W		CG C0G	5.7 p	±0.1pF, ±0.25pF, ±0.5pF	70	200		0.125±0.013	R	
EVS021 CG5R8□K-W		CG C0G	5.8 p	±0.1pF, ±0.25pF, ±0.5pF	70	200		0.125±0.013	R	
EVS021 CG5R9□K-W		CG C0G	5.9 p	±0.1pF, ±0.25pF, ±0.5pF	70	200		0.125±0.013	R	
EVS021 CG060□K-W		CG C0G	6 p	±0.1pF, ±0.25pF, ±0.5pF	70	200		0.125±0.013	R	
EVS021 CG6R1□K-W		CG C0G	6.1 p	±0.1pF, ±0.25pF, ±0.5pF	70	200		0.125±0.013	R	
EVS021 CG6R2□K-W		CG C0G	6.2 p	±0.1pF, ±0.25pF, ±0.5pF	60	200		0.125±0.013	R	
EVS021 CG6R3□K-W		CG C0G	6.3 p	±0.1pF, ±0.25pF, ±0.5pF	60	200		0.125±0.013	R	
EVS021 CG6R4□K-W		CG C0G	6.4 p	±0.1pF, ±0.25pF, ±0.5pF	60	200		0.125±0.013	R	
EVS021 CG6R5□K-W		CG C0G	6.5 p	±0.1pF, ±0.25pF, ±0.5pF	60	200		0.125±0.013	R	
EVS021 CG6R6□K-W		CG C0G	6.6 p	±0.1pF, ±0.25pF, ±0.5pF	60	200		0.125±0.013	R	
EVS021 CG6R7□K-W		CG C0G	6.7 p	±0.1pF, ±0.25pF, ±0.5pF	60	200		0.125±0.013	R	
EVS021 CG6R8□K-W		CG C0G	6.8 p	±0.1pF, ±0.25pF, ±0.5pF	60	200		0.125±0.013	R	
EVS021 CG6R9□K-W		CG C0G	6.9 p	±0.1pF, ±0.25pF, ±0.5pF	60	200		0.125±0.013	R	
EVS021 CG070□K-W		CG C0G	7 p	±0.1pF, ±0.25pF, ±0.5pF	60	200		0.125±0.013	R	
EVS021 CG7R1□K-W		CG C0G	7.1 p	±0.1pF, ±0.25pF, ±0.5pF	60	200		0.125±0.013	R	
EVS021 CG7R2□K-W		CG C0G	7.2 p	±0.1pF, ±0.25pF, ±0.5pF	60	200		0.125±0.013	R	
EVS021 CG7R3□K-W		CG C0G	7.3 p	±0.1pF, ±0.25pF, ±0.5pF	60	200		0.125±0.013	R	
EVS021 CG7R4□K-W		CG C0G	7.4 p	±0.1pF, ±0.25pF, ±0.5pF	60	200		0.125±0.013	R	
EVS021 CG7R5□K-W		CG C0G	7.5 p	±0.1pF, ±0.25pF, ±0.5pF	60	200		0.125±0.013	R	
EVS021 CG7R6□K-W		CG C0G	7.6 p	±0.1pF, ±0.25pF, ±0.5pF	60	200		0.125±0.013	R	
EVS021 CG7R7□K-W		CG C0G	7.7 p	±0.1pF, ±0.25pF, ±0.5pF	50	200		0.125±0.013	R	
EVS021 CG7R8□K-W		CG C0G	7.8 p	±0.1pF, ±0.25pF, ±0.5pF	50	200		0.125±0.013	R	
EVS021 CG7R9□K-W		CG C0G	7.9 p	±0.1pF, ±0.25pF, ±0.5pF	50	200		0.125±0.013	R	
EVS021 CG080□K-W		CG C0G	8 p	±0.1pF, ±0.25pF, ±0.5pF	50	200		0.125±0.013	R	
EVS021 CG8R1□K-W		CG C0G	8.1 p	±0.1pF, ±0.25pF, ±0.5pF	50	200		0.125±0.013	R	
EVS021 CG8R2□K-W		CG C0G	8.2 p	±0.1pF, ±0.25pF, ±0.5pF	50	200		0.125±0.013	R	
EVS021 CG8R3□K-W		CG C0G	8.3 p	±0.1pF, ±0.25pF, ±0.5pF	50	200		0.125±0.013	R	
EVS021 CG8R4□K-W		CG C0G	8.4 p	±0.1pF, ±0.25pF, ±0.5pF	50	200		0.125±0.013	R	
EVS021 CG8R5□K-W		CG C0G	8.5 p	±0.1pF, ±0.25pF, ±0.5pF	50	200		0.125±0.013	R	

PARTS NUMBER

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance	Q (at 1GHz) (min)	HTLT	Thickness <sup>*3</sup> [mm]	Soldering R:Reflow W:Wave
							Rated voltage x %		
EVS021 CG8R6□K-W		16	CG C0G	8.6 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.125±0.013	R
EVS021 CG8R7□K-W			CG C0G	8.7 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.125±0.013	R
EVS021 CG8R8□K-W			CG C0G	8.8 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.125±0.013	R
EVS021 CG8R9□K-W			CG C0G	8.9 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.125±0.013	R
EVS021 CG090□K-W			CG C0G	9 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.125±0.013	R
EVS021 CG9R1□K-W			CG C0G	9.1 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.125±0.013	R
EVS021 CG9R2□K-W			CG C0G	9.2 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.125±0.013	R
EVS021 CG9R3□K-W			CG C0G	9.3 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.125±0.013	R
EVS021 CG9R4□K-W			CG C0G	9.4 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.125±0.013	R
EVS021 CG9R5□K-W			CG C0G	9.5 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.125±0.013	R
EVS021 CG9R6□K-W			CG C0G	9.6 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.125±0.013	R
EVS021 CG9R7□K-W			CG C0G	9.7 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.125±0.013	R
EVS021 CG9R8□K-W			CG C0G	9.8 p	±0.1pF, ±0.25pF, ±0.5pF	40	200	0.125±0.013	R
EVS021 CG9R9□K-W			CG C0G	9.9 p	±0.1pF, ±0.25pF, ±0.5pF	40	200	0.125±0.013	R
EVS021 CG100□K-W			CG C0G	10 p	±2%, ±5%	50	200	0.125±0.013	R

042TYPE

【Temperature Characteristic CG : CG/C0G】 0.2mm thickness (C)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance	Q (at 1GHz) (min)	HTLT	Thickness <sup>*3</sup> [mm]	Soldering R:Reflow W:Wave
							Rated voltage x %		
TVS042 CG0R2□C-W		25	CG C0G	0.2 p	±0.05pF, ±0.1pF, ±0.25pF	300	200	0.2±0.02	R
TVS042 CG0R3□C-W			CG C0G	0.3 p	±0.05pF, ±0.1pF, ±0.25pF	300	200	0.2±0.02	R
TVS042 CG0R4□C-W			CG C0G	0.4 p	±0.05pF, ±0.1pF, ±0.25pF	300	200	0.2±0.02	R
TVS042 CG0R5□C-W			CG C0G	0.5 p	±0.05pF, ±0.1pF, ±0.25pF	300	200	0.2±0.02	R
TVS042 CG0R6□C-W			CG C0G	0.6 p	±0.05pF, ±0.1pF, ±0.25pF	300	200	0.2±0.02	R
TVS042 CG0R7□C-W			CG C0G	0.7 p	±0.05pF, ±0.1pF, ±0.25pF	300	200	0.2±0.02	R
TVS042 CGR75□C-W			CG C0G	0.75 p	±0.05pF, ±0.1pF, ±0.25pF	300	200	0.2±0.02	R
TVS042 CG0R8□C-W			CG C0G	0.8 p	±0.05pF, ±0.1pF, ±0.25pF	300	200	0.2±0.02	R
TVS042 CG0R9□C-W			CG C0G	0.9 p	±0.05pF, ±0.1pF, ±0.25pF	300	200	0.2±0.02	R
TVS042 CG010□C-W			CG C0G	1 p	±0.05pF, ±0.1pF, ±0.25pF	300	200	0.2±0.02	R
TVS042 CG1R1□C-W			CG C0G	1.1 p	±0.05pF, ±0.1pF, ±0.25pF	280	200	0.2±0.02	R
TVS042 CG1R2□C-W			CG C0G	1.2 p	±0.05pF, ±0.1pF, ±0.25pF	270	200	0.2±0.02	R
TVS042 CG1R3□C-W			CG C0G	1.3 p	±0.05pF, ±0.1pF, ±0.25pF	260	200	0.2±0.02	R
TVS042 CG1R4□C-W			CG C0G	1.4 p	±0.05pF, ±0.1pF, ±0.25pF	250	200	0.2±0.02	R
TVS042 CG1R5□C-W			CG C0G	1.5 p	±0.05pF, ±0.1pF, ±0.25pF	240	200	0.2±0.02	R
TVS042 CG1R6□C-W			CG C0G	1.6 p	±0.05pF, ±0.1pF, ±0.25pF	230	200	0.2±0.02	R
TVS042 CG1R7□C-W			CG C0G	1.7 p	±0.05pF, ±0.1pF, ±0.25pF	220	200	0.2±0.02	R
TVS042 CG1R8□C-W			CG C0G	1.8 p	±0.05pF, ±0.1pF, ±0.25pF	210	200	0.2±0.02	R
TVS042 CG1R9□C-W			CG C0G	1.9 p	±0.05pF, ±0.1pF, ±0.25pF	200	200	0.2±0.02	R
TVS042 CG020□C-W			CG C0G	2 p	±0.05pF, ±0.1pF, ±0.25pF	190	200	0.2±0.02	R
TVS042 CG2R1□C-W			CG C0G	2.1 p	±0.05pF, ±0.1pF, ±0.25pF	185	200	0.2±0.02	R
TVS042 CG2R2□C-W			CG C0G	2.2 p	±0.05pF, ±0.1pF, ±0.25pF	180	200	0.2±0.02	R
TVS042 CG2R3□C-W			CG C0G	2.3 p	±0.05pF, ±0.1pF, ±0.25pF	175	200	0.2±0.02	R
TVS042 CG2R4□C-W			CG C0G	2.4 p	±0.05pF, ±0.1pF, ±0.25pF	170	200	0.2±0.02	R
TVS042 CG2R5□C-W			CG C0G	2.5 p	±0.05pF, ±0.1pF, ±0.25pF	160	200	0.2±0.02	R
TVS042 CG2R6□C-W			CG C0G	2.6 p	±0.05pF, ±0.1pF, ±0.25pF	155	200	0.2±0.02	R
TVS042 CG2R7□C-W			CG C0G	2.7 p	±0.05pF, ±0.1pF, ±0.25pF	150	200	0.2±0.02	R
TVS042 CG2R8□C-W			CG C0G	2.8 p	±0.05pF, ±0.1pF, ±0.25pF	140	200	0.2±0.02	R
TVS042 CG2R9□C-W			CG C0G	2.9 p	±0.05pF, ±0.1pF, ±0.25pF	135	200	0.2±0.02	R
TVS042 CG030□C-W			CG C0G	3 p	±0.05pF, ±0.1pF, ±0.25pF	130	200	0.2±0.02	R
TVS042 CG3R1□C-W			CG C0G	3.1 p	±0.1pF, ±0.25pF	125	200	0.2±0.02	R
TVS042 CG3R2□C-W			CG C0G	3.2 p	±0.1pF, ±0.25pF	125	200	0.2±0.02	R
TVS042 CG3R3□C-W			CG C0G	3.3 p	±0.1pF, ±0.25pF	120	200	0.2±0.02	R
TVS042 CG3R4□C-W			CG C0G	3.4 p	±0.1pF, ±0.25pF	120	200	0.2±0.02	R
TVS042 CG3R5□C-W			CG C0G	3.5 p	±0.1pF, ±0.25pF	110	200	0.2±0.02	R
TVS042 CG3R6□C-W			CG C0G	3.6 p	±0.1pF, ±0.25pF	110	200	0.2±0.02	R
TVS042 CG3R7□C-W			CG C0G	3.7 p	±0.1pF, ±0.25pF	110	200	0.2±0.02	R
TVS042 CG3R8□C-W			CG C0G	3.8 p	±0.1pF, ±0.25pF	100	200	0.2±0.02	R
TVS042 CG3R9□C-W			CG C0G	3.9 p	±0.1pF, ±0.25pF	100	200	0.2±0.02	R
TVS042 CG040□C-W			CG C0G	4 p	±0.1pF, ±0.25pF	90	200	0.2±0.02	R
TVS042 CG4R1□C-W			CG C0G	4.1 p	±0.1pF, ±0.25pF	90	200	0.2±0.02	R
TVS042 CG4R2□C-W			CG C0G	4.2 p	±0.1pF, ±0.25pF	85	200	0.2±0.02	R
TVS042 CG4R3□C-W			CG C0G	4.3 p	±0.1pF, ±0.25pF	85	200	0.2±0.02	R
TVS042 CG4R4□C-W			CG C0G	4.4 p	±0.1pF, ±0.25pF	85	200	0.2±0.02	R
TVS042 CG4R5□C-W			CG C0G	4.5 p	±0.1pF, ±0.25pF	85	200	0.2±0.02	R
TVS042 CG4R6□C-W			CG C0G	4.6 p	±0.1pF, ±0.25pF	85	200	0.2±0.02	R
TVS042 CG4R7□C-W			CG C0G	4.7 p	±0.1pF, ±0.25pF	85	200	0.2±0.02	R
TVS042 CG4R8□C-W			CG C0G	4.8 p	±0.1pF, ±0.25pF	80	200	0.2±0.02	R
TVS042 CG4R9□C-W			CG C0G	4.9 p	±0.1pF, ±0.25pF	80	200	0.2±0.02	R
TVS042 CG050□C-W			CG C0G	5 p	±0.1pF, ±0.25pF	80	200	0.2±0.02	R
TVS042 CG5R1□C-W		CG C0G	5.1 p	±0.1pF, ±0.25pF, ±0.5pF	75	200	0.2±0.02	R	
TVS042 CG5R2□C-W		CG C0G	5.2 p	±0.1pF, ±0.25pF, ±0.5pF	75	200	0.2±0.02	R	
TVS042 CG5R3□C-W		CG C0G	5.3 p	±0.1pF, ±0.25pF, ±0.5pF	75	200	0.2±0.02	R	
TVS042 CG5R4□C-W		CG C0G	5.4 p	±0.1pF, ±0.25pF, ±0.5pF	70	200	0.2±0.02	R	
TVS042 CG5R5□C-W		CG C0G	5.5 p	±0.1pF, ±0.25pF, ±0.5pF	70	200	0.2±0.02	R	
TVS042 CG5R6□C-W		CG C0G	5.6 p	±0.1pF, ±0.25pF, ±0.5pF	70	200	0.2±0.02	R	
TVS042 CG5R7□C-W		CG C0G	5.7 p	±0.1pF, ±0.25pF, ±0.5pF	70	200	0.2±0.02	R	
TVS042 CG5R8□C-W		CG C0G	5.8 p	±0.1pF, ±0.25pF, ±0.5pF	70	200	0.2±0.02	R	
TVS042 CG5R9□C-W		CG C0G	5.9 p	±0.1pF, ±0.25pF, ±0.5pF	65	200	0.2±0.02	R	
TVS042 CG060□C-W		CG C0G	6 p	±0.1pF, ±0.25pF, ±0.5pF	65	200	0.2±0.02	R	
TVS042 CG6R1□C-W		CG C0G	6.1 p	±0.1pF, ±0.25pF, ±0.5pF	65	200	0.2±0.02	R	
TVS042 CG6R2□C-W		CG C0G	6.2 p	±0.1pF, ±0.25pF, ±0.5pF	65	200	0.2±0.02	R	
TVS042 CG6R3□C-W		CG C0G	6.3 p	±0.1pF, ±0.25pF, ±0.5pF	65	200	0.2±0.02	R	
TVS042 CG6R4□C-W		CG C0G	6.4 p	±0.1pF, ±0.25pF, ±0.5pF	65	200	0.2±0.02	R	
TVS042 CG6R5□C-W		CG C0G	6.5 p	±0.1pF, ±0.25pF, ±0.5pF	65	200	0.2±0.02	R	
TVS042 CG6R6□C-W		CG C0G	6.6 p	±0.1pF, ±0.25pF, ±0.5pF	60	200	0.2±0.02	R	
TVS042 CG6R7□C-W		CG C0G	6.7 p	±0.1pF, ±0.25pF, ±0.5pF	60	200	0.2±0.02	R	

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PARTS NUMBER

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance	Q (at 1GHz) (min)	HTLT	Thickness*3 [mm]	Soldering R:Reflow W:Wave	
							Rated voltage x %			
TVS042 CG6R8□C-W		25	CG	COG	6.8 p	±0.1pF, ±0.25pF, ±0.5pF	60	200	0.2±0.02	R
TVS042 CG6R9□C-W			CG	COG	6.9 p	±0.1pF, ±0.25pF, ±0.5pF	60	200	0.2±0.02	R
TVS042 CG070□C-W			CG	COG	7 p	±0.1pF, ±0.25pF, ±0.5pF	60	200	0.2±0.02	R
TVS042 CG7R1□C-W			CG	COG	7.1 p	±0.1pF, ±0.25pF, ±0.5pF	60	200	0.2±0.02	R
TVS042 CG7R2□C-W			CG	COG	7.2 p	±0.1pF, ±0.25pF, ±0.5pF	60	200	0.2±0.02	R
TVS042 CG7R3□C-W			CG	COG	7.3 p	±0.1pF, ±0.25pF, ±0.5pF	55	200	0.2±0.02	R
TVS042 CG7R4□C-W			CG	COG	7.4 p	±0.1pF, ±0.25pF, ±0.5pF	55	200	0.2±0.02	R
TVS042 CG7R5□C-W			CG	COG	7.5 p	±0.1pF, ±0.25pF, ±0.5pF	55	200	0.2±0.02	R
TVS042 CG7R6□C-W			CG	COG	7.6 p	±0.1pF, ±0.25pF, ±0.5pF	55	200	0.2±0.02	R
TVS042 CG7R7□C-W			CG	COG	7.7 p	±0.1pF, ±0.25pF, ±0.5pF	55	200	0.2±0.02	R
TVS042 CG7R8□C-W			CG	COG	7.8 p	±0.1pF, ±0.25pF, ±0.5pF	55	200	0.2±0.02	R
TVS042 CG7R9□C-W			CG	COG	7.9 p	±0.1pF, ±0.25pF, ±0.5pF	55	200	0.2±0.02	R
TVS042 CG080□C-W			CG	COG	8 p	±0.1pF, ±0.25pF, ±0.5pF	55	200	0.2±0.02	R
TVS042 CG8R1□C-W			CG	COG	8.1 p	±0.1pF, ±0.25pF, ±0.5pF	55	200	0.2±0.02	R
TVS042 CG8R2□C-W			CG	COG	8.2 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.2±0.02	R
TVS042 CG8R3□C-W			CG	COG	8.3 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.2±0.02	R
TVS042 CG8R4□C-W			CG	COG	8.4 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.2±0.02	R
TVS042 CG8R5□C-W			CG	COG	8.5 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.2±0.02	R
TVS042 CG8R6□C-W			CG	COG	8.6 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.2±0.02	R
TVS042 CG8R7□C-W			CG	COG	8.7 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.2±0.02	R
TVS042 CG8R8□C-W			CG	COG	8.8 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.2±0.02	R
TVS042 CG8R9□C-W			CG	COG	8.9 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.2±0.02	R
TVS042 CG090□C-W			CG	COG	9 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.2±0.02	R
TVS042 CG9R1□C-W			CG	COG	9.1 p	±0.1pF, ±0.25pF, ±0.5pF	45	200	0.2±0.02	R
TVS042 CG9R2□C-W			CG	COG	9.2 p	±0.1pF, ±0.25pF, ±0.5pF	45	200	0.2±0.02	R
TVS042 CG9R3□C-W			CG	COG	9.3 p	±0.1pF, ±0.25pF, ±0.5pF	45	200	0.2±0.02	R
TVS042 CG9R4□C-W			CG	COG	9.4 p	±0.1pF, ±0.25pF, ±0.5pF	45	200	0.2±0.02	R
TVS042 CG9R5□C-W			CG	COG	9.5 p	±0.1pF, ±0.25pF, ±0.5pF	45	200	0.2±0.02	R
TVS042 CG9R6□C-W			CG	COG	9.6 p	±0.1pF, ±0.25pF, ±0.5pF	45	200	0.2±0.02	R
TVS042 CG9R7□C-W			CG	COG	9.7 p	±0.1pF, ±0.25pF, ±0.5pF	45	200	0.2±0.02	R
TVS042 CG9R8□C-W			CG	COG	9.8 p	±0.1pF, ±0.25pF, ±0.5pF	45	200	0.2±0.02	R
TVS042 CG9R9□C-W			CG	COG	9.9 p	±0.1pF, ±0.25pF, ±0.5pF	45	200	0.2±0.02	R
TVS042 CG100□C-W			CG	COG	10 p	±2%, ±5%	45	200	0.2±0.02	R
TVS042 CG110JC-W			CG	COG	11 p	±5%	40	200	0.2±0.02	R
TVS042 CG120JC-W			CG	COG	12 p	±5%	40	200	0.2±0.02	R
TVS042 CG130JC-W			CG	COG	13 p	±5%	40	200	0.2±0.02	R
TVS042 CG150JC-W			CG	COG	15 p	±5%	40	200	0.2±0.02	R
TVS042 CG160JC-W			CG	COG	16 p	±5%	40	200	0.2±0.02	R
TVS042 CG180JC-W			CG	COG	18 p	±5%	40	200	0.2±0.02	R
TVS042 CG220JC-W			CG	COG	22 p	±5%	30	200	0.2±0.02	R

105TYPE

[Temperature Characteristic CG : CG/COG] 0.5mm thickness (W)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics	Capacitance [F]	Capacitance tolerance	Q (at 1GHz) (min)	HTLT	Thickness*3 [mm]	Soldering R:Reflow W:Wave	
							Rated voltage x %			
EVK105 CG0R3BW-F		16	CG	COG	0.3 p	±0.1pF	300	200	0.5±0.05	R
EVK105 CG0R4BW-F			CG	COG	0.4 p	±0.1pF	300	200	0.5±0.05	R
EVK105 CG0R5BW-F			CG	COG	0.5 p	±0.1pF	300	200	0.5±0.05	R
EVK105 CG0R6BW-F			CG	COG	0.6 p	±0.1pF	300	200	0.5±0.05	R
EVK105 CG0R7BW-F			CG	COG	0.7 p	±0.1pF	300	200	0.5±0.05	R
EVK105 CG0R8BW-F			CG	COG	0.8 p	±0.1pF	300	200	0.5±0.05	R
EVK105 CG0R9BW-F			CG	COG	0.9 p	±0.1pF	300	200	0.5±0.05	R
EVK105 CG010BW-F			CG	COG	1 p	±0.1pF	300	200	0.5±0.05	R
EVK105 CG1R1BW-F			CG	COG	1.1 p	±0.1pF	280	200	0.5±0.05	R
EVK105 CG1R2BW-F			CG	COG	1.2 p	±0.1pF	270	200	0.5±0.05	R
EVK105 CG1R3BW-F			CG	COG	1.3 p	±0.1pF	260	200	0.5±0.05	R
EVK105 CG1R5BW-F			CG	COG	1.5 p	±0.1pF	240	200	0.5±0.05	R
EVK105 CG1R6BW-F			CG	COG	1.6 p	±0.1pF	230	200	0.5±0.05	R
EVK105 CG1R8BW-F			CG	COG	1.8 p	±0.1pF	210	200	0.5±0.05	R
EVK105 CG020BW-F			CG	COG	2 p	±0.1pF	190	200	0.5±0.05	R
EVK105 CG2R2JW-F			CG	COG	2.2 p	±5%	180	200	0.5±0.05	R
EVK105 CG2R4JW-F			CG	COG	2.4 p	±5%	170	200	0.5±0.05	R
EVK105 CG2R7JW-F			CG	COG	2.7 p	±5%	150	200	0.5±0.05	R
EVK105 CG030JW-F			CG	COG	3 p	±5%	130	200	0.5±0.05	R
EVK105 CG3R3JW-F			CG	COG	3.3 p	±5%	120	200	0.5±0.05	R
EVK105 CG3R6JW-F			CG	COG	3.6 p	±5%	110	200	0.5±0.05	R
EVK105 CG3R9JW-F			CG	COG	3.9 p	±5%	99	200	0.5±0.05	R
EVK105 CG4R3JW-F			CG	COG	4.3 p	±5%	84	200	0.5±0.05	R
EVK105 CG4R7JW-F			CG	COG	4.7 p	±5%	84	200	0.5±0.05	R
EVK105 CG5R1JW-F			CG	COG	5.1 p	±5%	84	200	0.5±0.05	R

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【Temperature Characteristic CG : CG/C0G】 0.5mm thickness(W)

Part number 1	Part number 2	Rated voltage [V]	Temperature characteristics		Capacitance [F]	Capacitance tolerance	Q (at 1GHz) (min)	HTLT		Thickness*3 [mm]	Soldering R:Reflow W:Wave
								Rated voltage x %			
UVK105 CG0R3BW-F		50	CG	C0G	0.3 p	±0.1pF	300	200	200	0.5±0.05	R
UVK105 CG0R4BW-F			CG	C0G	0.4 p	±0.1pF	300	200	200	0.5±0.05	R
UVK105 CG0R5BW-F			CG	C0G	0.5 p	±0.1pF	300	200	200	0.5±0.05	R
UVK105 CG0R6BW-F			CG	C0G	0.6 p	±0.1pF	300	200	200	0.5±0.05	R
UVK105 CG0R7BW-F			CG	C0G	0.7 p	±0.1pF	300	200	200	0.5±0.05	R
UVK105 CG0R8BW-F			CG	C0G	0.8 p	±0.1pF	300	200	200	0.5±0.05	R
UVK105 CG0R9BW-F			CG	C0G	0.9 p	±0.1pF	300	200	200	0.5±0.05	R
UVK105 CG010BW-F			CG	C0G	1 p	±0.1pF	300	200	200	0.5±0.05	R
UVK105 CG1R1BW-F			CG	C0G	1.1 p	±0.1pF	280	200	200	0.5±0.05	R
UVK105 CG1R2BW-F			CG	C0G	1.2 p	±0.1pF	270	200	200	0.5±0.05	R
UVK105 CG1R3BW-F			CG	C0G	1.3 p	±0.1pF	260	200	200	0.5±0.05	R
UVK105 CG1R5BW-F			CG	C0G	1.5 p	±0.1pF	240	200	200	0.5±0.05	R
UVK105 CG1R6BW-F			CG	C0G	1.6 p	±0.1pF	230	200	200	0.5±0.05	R
UVK105 CG1R8BW-F			CG	C0G	1.8 p	±0.1pF	210	200	200	0.5±0.05	R
UVK105 CG020BW-F			CG	C0G	2 p	±0.1pF	190	200	200	0.5±0.05	R
UVK105 CG2R2JW-F			CG	C0G	2.2 p	±5%	180	200	200	0.5±0.05	R
UVK105 CG2R4JW-F			CG	C0G	2.4 p	±5%	170	200	200	0.5±0.05	R
UVK105 CG2R7JW-F			CG	C0G	2.7 p	±5%	150	200	200	0.5±0.05	R
UVK105 CG030JW-F			CG	C0G	3 p	±5%	130	200	200	0.5±0.05	R
UVK105 CG3R3JW-F			CG	C0G	3.3 p	±5%	120	200	200	0.5±0.05	R
UVK105 CG3R6JW-F			CG	C0G	3.6 p	±5%	110	200	200	0.5±0.05	R
UVK105 CG3R9JW-F			CG	C0G	3.9 p	±5%	99	200	200	0.5±0.05	R
UVK105 CG4R3JW-F			CG	C0G	4.3 p	±5%	84	200	200	0.5±0.05	R
UVK105 CG4R7JW-F			CG	C0G	4.7 p	±5%	84	200	200	0.5±0.05	R
UVK105 CG5R1JW-F			CG	C0G	5.1 p	±5%	84	200	200	0.5±0.05	R

► This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our product specification sheets. For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our website (<http://www.ty-top.com/>).