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Vishay Cera-Mite

Lower Voltage Ceramic DC Disc Capacitors 1000 V_{DC} Precision Capacitors



QUICK REFERENCE DATA								
DESCRIPTION	VALUE							
Ceramic Class	1							
Ceramic Dielectric	COK COG U2J M3K			МЗК	S3N			
Voltage (V _{AC})	1000							
Min. Capacitance (pF)	1.0	3.0	33	560	680			
Max. Capacitance (pF)	2.7	270	68	560	680			
Mounting	Radial							

INSULATION RESISTANCE

Min. 1000 ΩF or 50 000 $M\Omega$

TOLERANCE ON CAPACITANCE

±5%

DISSIPATION FACTOR

0.1 % max. at 1 MHz; 1 V

CATEGORY TEMPERATURE RANGE

(- 55 to + 125) °C

CLIMATIC CATEGORY ACC. TO EN 60068-1

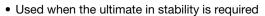
55/125/21

OPERATING TEMPERATURE RANGE

(- 55 to + 105) °C

FEATURES

• Ultra stable over temperature and voltage





- Radial leads
- · Ceramic singlelayer capacitor
- Material categorization: For definitions of compliance please see <u>www.vishav.com/doc?99912</u>

APPLICATIONS

- Temperature compensating
- · Resonant circuit

DESIGN

The capacitors consist of a ceramic disc of which both sides are silver-plated. Connection leads are made of tinned copper or tinned copper clad steel having diameters of 0.020" (0.51 mm) or 0.025" (0.64 mm).

The capacitors may be supplied with radial kinked or straight leads having lead spacing of 0.250" (6.35 mm) or 0.375" (9.5 mm).

Coating is made of flame retardant epoxy resin in accordance with "UL 94 V-0".

CAPACITANCE RANGE

1.0 pF to 680 pF

RATED VOLTAGE

1000 V_{DC}

DIELECTRIC STRENGTH BETWEEN LEADS

Component test:

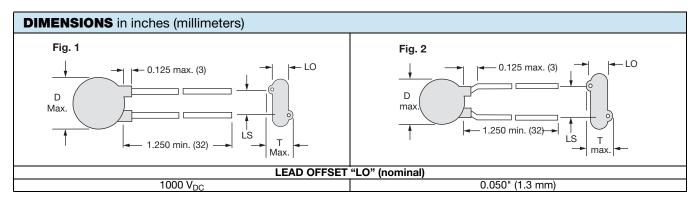
 $2500 V_{DC}$, 2 s

CERAMIC DIELECTRIC

C0K, C0G, U2J, M3K, S3N (Class 1)



Vishay Cera-Mite



ORE	ORDERING INFORMATION, CERAMIC 1000 V _{DC} PRECISION CAPACITORS									
С		D	Т	LS	WIRE SIZE				G. ORDERING CODE	
(pF)	TOL.	DIAMETER INCH (mm)	THICKNESS INCH (mm)	LEAD SPACE INCH (mm)	AWG	INCH (mm)	FIG.			
COK (C0K (P100)									
1.0								561R10TCCV10		
2.2	± 0.5 pF	0.250 (6.4)	0.156 (4.0)	0.250 (6.4)	24	0.020 (0.51)	2	561R10TCCV22		
2.7								561R10TCCV27		
COG (NP0)	T	T	T			1 1	504D40T00\/00		
3.0							-	561R10TCCV30		
3.3							-	561R10TCCV33		
3.9							-	561R10TCCV39		
4.7	± 0.5 pF	0.250 (6.4)	0.156 (4.0)	0.250 (6.4)	24	0.020 (0.51)		561R10TCCV47		
5.0	·							561R10TCCV50		
5.6								561R10TCCV56		
6.8								561R10TCCV68		
8.2								561R10TCCV82		
10								561R10TCCQ10		
12							2	561R10TCCQ12		
15					_		-	561R10TCCQ15 561R10TCCQ18		
18							-			
20 22		0.290 (7.4)	0.156 (4.0)	0.250 (6.4)			-	561R10TCCQ20 561R10TCCQ22		
25							-	561R10TCCQ22		
27							-	561R10TCCQ25		
30						1		561R10TCCQ27		
33		0.370 (9.4)	0.156 (4.0)	0.250 (6.4)				561R10TCCQ33		
39								561R10TCCQ39		
47	± 5 %				=			561R10TCCQ47		
50		0.440 (11.2)	0.156 (4.0)	0.250 (6.4)		0.025 (0.64)		561R10TCCQ50		
56		0.440 (11.2)	0.100 (4.0)	0.200 (0.4)				561R10TCCQ56		
68		0.490 (12.4)	0.156 (4.0)	0.250 (6.4)	22		•	561R10TCCQ68		
82		0.490 (12.4)	0.156 (4.0)	0.375 (9.5)	1			561R10TCCQ82		
100		` ,	` ′			1	561R10TCCT10			
120		0.560 (14.2)	0.156 (4.0)	0.375 (9.5)			'	561R10TCCT12		
150		0.630 (16.0)	0.156 (4.0)	0.375 (9.5)				561R10TCCT15		
180		0.680 (17.3)	0.156 (4.0)	0.375 (9.5)				561R10TCCT18		
220		0.760 (19.3)	0.156 (4.0)	0.375 (9.5)	1			561R10TCCT22		
270		0.890 (22.6)	0.156 (4.0)	0.375 (9.5)	1			561R10TCCT27		
U2J (N750)	. \ -/			•					
33		0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	24	0.020 (0.51)		561R10TCUQ33		
68	± 5 %	0.370 (9.4)	0.156 (4.0)	0.250 (6.4)	22	0.025 (0.64)	2	561R10TCUQ68		
МЗК	(N1000)	· , ,	. , ,	. ,		. , ,				
560	± 5 %	0.560 (14.2)	0.156 (4.0)	0.375 (9.5)	22	0.025 (0.64)	1	561R10TCUT56		
S3N (N3300)	· ,	· ,	· ,		• • •				
680	± 5 %	0.630 (16.0)	0.156 (4.0)	0.375 (9.5)	22	0.025 (0.64)	1	561R10TCUT68		
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RELATED DOCUMENTS	
General Information	www.vishay.com/doc?23140



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Vishay

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Revision: 02-Oct-12 Document Number: 91000