# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## WIMA MP 3-Y2 / 3R-Y2

### Metallized Paper (MP) RFI-Capacitors Class Y2 in PCM 10 mm to 27.5 mm. Capacitances from 1000 pF to 0.1 µF. Rated Voltages 250 VAC and 300 VAC.

#### **Special Features**

- Particularly high reliability against active and passive flammability
- Excellent self-healing as well as high voltage strength
   Twice the enfott by internal
- Twice the safety by internal series connection (300 VAC)
   High degree of interference
- suppression due to good attenuation and low ESR
- For temperatures up to +110° C
- According to RoHS 2011/65/EU

#### **Typical Applications**

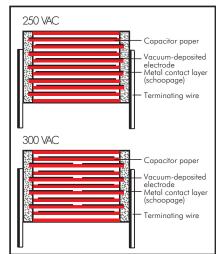
Class Y2 RFI applications to meet EMC regulations

- Capacitors connected to the mains between phase or neutral and earthed casing
- By-passing of the basic or supplementary insulation, pulse peak voltage ≤ 5 kV

#### Construction

#### **Dielectric:**

Paper, epoxy resin impregnated Capacitor electrodes: Vacuum-deposited Internal construction:



#### **Encapsulation:**

Self-extinguishing epoxy resin, UL 94 V-0. metal foil

#### Terminations:

Tinned wire. Marking:

Marking: Black on Silver.

#### **Electrical Data**

#### Capacitance range: 1000 pF to 0.1 $\mu$ F (E12-values on request) Rated voltages: 250 VAC, 300 VAC Continuous DC voltage\* (general guide): 250 VAC: $\leq 1000 V$ 300 VAC: $\leq 1250 V$ Capacitance tolerances: $\pm 20\%$ Operating temperature range: -40° C to +110° C Climatic test category: 250 VAC: 40/110/56/C 300 VAC: 40/110/56/B in accordance with IEC

Insulation resistance at +20° C: ≥ 12 x 10<sup>3</sup> MΩ Measuring voltage: 100 V/1 min. Dissipation factors: tan δ ≤ 13 x 10<sup>-3</sup> at 1 kHz and +20° C Test specifications:

in accordance with IEC 60384-14

Approvals:

Country	Authority	Specification	Symbol 250 VAC 300 VAC			val-No. 300 VAC
Germany	VDE	IEC 60384-14	DE	10	87455	40032534
USA/Canada	UL	UL 60384-14 CAN/CSA-E60384-14	EN 60384-14	<b>SN</b> us	E 100438	E 100438

#### **Mechanical Tests**

**Pull test on pins:** 10 N in direction of pins according to IEC 60068-2-21 **Vibration:** 6 hours at 10...2000 Hz and 0.75 mm displacement amplitude or 10 g in accordance with IEC 60068-2-6 **Low air density:** 1kPa = 10 mbar in accordance with IEC 60068-2-13 **Bump test:** 4000 bumps at 390 m/sec<sup>2</sup> in accordance with IEC 60068-2-29

\* If safety-approved EMI suppression capacitors are operated with a DC voltage being above the specified AC voltage rating the given approvals are no longer valid (IEC 60384-14).

Furthermore the permissible pulse rise time du/dt ( $F_{max}$ .) will be subject to a reduction according to

 $F_{max.} = F_r \times \sqrt{2} \times UAC / UDC$ 

if the DC operating voltage UDC is higher than  $\sqrt{2}\,x$  UAC

## Maximum pulse rise time 250 VAC:

Capacitance	Pulse rise time V/µsec
pF/µF	max. operation
1000 4700 6800 0.022	2500 1750

#### Maximum pulse rise time 300 VAC:

Capacitance	Pulse rise time V/µsec
pF/µF	max. operation
1000 4700	2500
6800 0.015	1850
0.022 0.1	600

for pulses equal to a voltage amplitude with  $\sqrt{2} \times 250$  VAC = 355 V with  $\sqrt{2} \times 300$  VAC = 425 V according to IEC 60384-14 **Test voltage:** 2400 VDC, 2sec. **Reliability:** 

Operational life > 300 000 hours Failure rate < 1 fit (0.5 x U<sub>r</sub> and 40° C)

#### Packing

Available taped and reeled.

Detailed taping information and graphs at the end of the catalogue.

For further details and graphs please refer to Technical Information.



## WIMA MP 3-Y2 / 3R-Y2

### Continuation

#### **General Data**

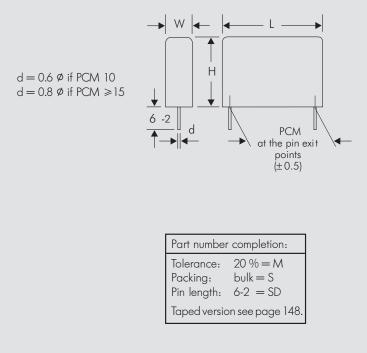
Capacitanco		•		250	VAC*	300 VAC*						
Capacitance	W	Н	L	PCM**	Part number	W	Н	L	PCM**	Part number		
1000 pF	4	8.5	13.5	10	MPY20W1100FA00	5	13	19	15	MPRY2W1100FC00		
1500 "	4	8.5	13.5	10	MPY20W1150FA00	5	13	19	15	MPRY2W1150FC00		
2200 "	4	8.5	13.5	10	MPY20W1220FA00	5	13	19	15	MPRY2W1220FC00		
3300 "	4	8.5	13.5	10	MPY20VV1330FA00	5	13	19	15	MPRY2W1330FC00		
4700 "	5	10	13.5	10	MPY20W1470FB00	6	14	19	15	MPRY2W1470FD00		
6800 "	5	13	19	15	MPY20W1680FC00	7	15	19	15	MPRY2W1680FE00		
0.01 µF	5	13	19	15	MPY20VV2100FC00	8	17	19	15	MPRY2W2100FF00		
0.015 "	6	14	19	15	MPY20W2150FD00	10	18	19	15	MPRY2W2150FG00		
0.022 "	7	15	19	15	MPY20W2220FE00	8	20	28	22.5	MPRY2W2220FH00		
0.033 "						8	20	28	22.5	MPRY2W2330FH00		
0.047 "						10	22	28	22.5	MPRY2W2470FI00		
0.068 "						12	24	28	22.5	MPRY2W2680FJ00		
0.1 µF						13	25	33	27.5	MPRY2W3100FK00		

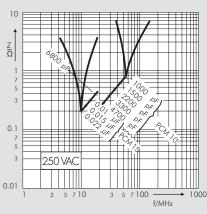
\* f = 50/60 Hz

\*\* PCM = Printed circuit module = pin spacing

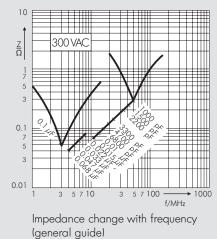
Upon request with long pins 35-2 mm max.

 $\mathsf{Dims.}$  in mm.





Impedance change with frequency (general guide)





## **Recommendation for Processing** and Application of **Through-Hole Capacitors**

#### **Soldering Process**

Internal temperature of the capacitor must be kept as follows:

Polyester:	preheating:	T <sub>max.</sub>	≤125° C
	soldering:	T <sub>max.</sub>	≤135° C
Polypropylene:	preheating:	T <sub>max.</sub>	≤ 100° C
	soldering:	T <sub>max.</sub>	≤ 110° C

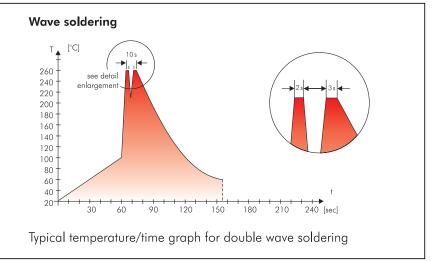
#### Single wave soldering

Soldering bath temperature: T < 260° C Dwell time: t < 5 sec

#### Double wave soldering

Soldering bath temperature:  $T < 260 \,^{\circ}$  C Dwell time:  $\Sigma t < 5 \text{ sec}$ 

Due to different soldering processes and heat requirements the graphs are to be regarded as a recommendation only.



## WIMA Quality and Environmental Philosophy

#### ISO 9001:2008 Certification

ISO 9001:2008 is an international basic standard of quality assurance systems for all branches of industry. The approval according to ISO 9001:2008 of our factories by the infaz (Institut für Auditierung und Zertifizierung) certifies that organisation, equipment and monitoring of quality assurance in our factories correspond to internationally recognized standards.

#### WIMA WPCS

The WIMA Process Control System (WPCS) is a quality surveillance and optimization system developed by WIMA. WPCS is a major part of the quality-oriented WIMA production. Points of application during production process:

- incoming material inspection
- metallization
- film inspection
- schoopage
- pre-healing
- pin attachment
- cast resin preparation/ encapsulation
- 100% final inspection
- Testing as per customer requirements

#### **WIMA Environmental Policy**

All WIMA capacitors, irrespective of whether through-hole devices or SMD, are made of environmentally friendly materials. Neither during manufacture nor in the product itself any toxic substances are used, e.g.

- Lead
- PCB
- CFC
- Hydrocarbon chloride
- Chromium 6+

We merely use pure, recyclable materials for packing our components, such as:

- PBB/PBDE

- Arsenic

- Mercury

- etc.

- carton
- cardboard
- adhesive tape made of paper
- polystyrene

We almost completely refrain from using packing materials such as:

- foamed polystyrene (Styropor®)
- adhesive tapes made of plastic
- metal clips

#### **RoHS Compliance**

According to the RoHS Directive 2011/65/EU certain hazardous substances like e.g. lead, cadmium, mercury must not be used any longer in electronic equipment as of July 1st, 2006. For the sake of the environment WIMA has refraind from using such substances since years already.



Tape for lead-free WIMA capacitors

#### **DIN EN ISO 14001:2004**

WIMA's environmental management has been established in accordance with the guidelines of DIN EN ISO 14001:2004 to optimize the production processes with regard to energy and resources.



## Typical Dimensions for Taping Configuration

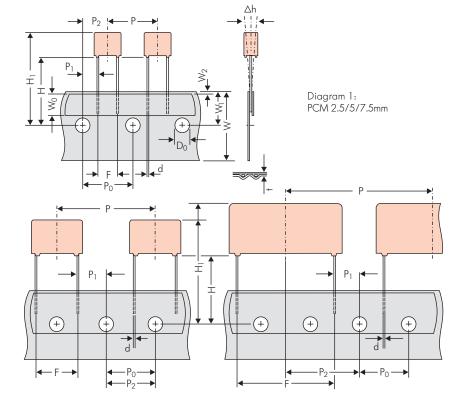


Diagram 2: PCM 10/15 mm

Diagram 3: PCM 22.5 and 27.5\*mm \*PCM 27.5 taping possible with two feed holes between components

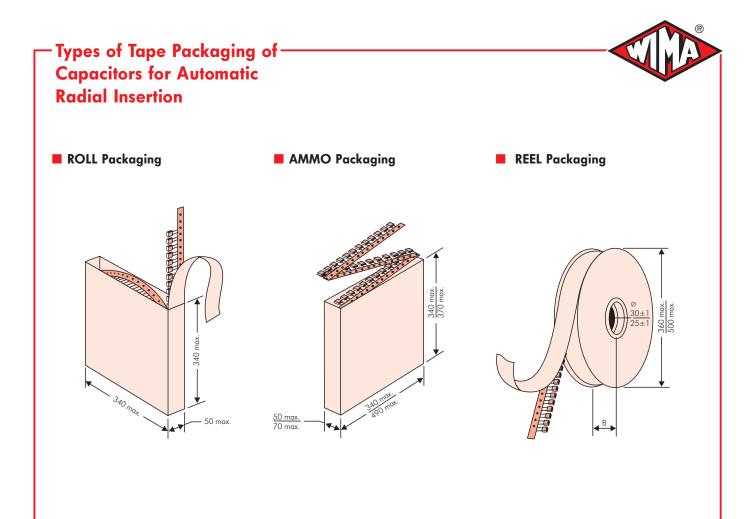
		Dimensions for Radial Taping											
Designation	Symbol	PCM 2.5 taping	PCM 5 taping	PCM 7.5 taping	PCM 10 taping*	PCM 15 taping*	PCM 22.5 taping	PCM 27.5 taping					
Carrier tape width	W	18.0 ±0.5	18.0 ±0.5	18.0 ±0.5	18.0 ±0.5	18.0 ±0.5	18.0 ±0.5	18.0 ±0.5					
Hold-down tape width	W <sub>0</sub>	6.0 for hot-sealing adhesive tape	6.0 for hot-sealing adhesive tape	12.0 for hot-sealing adhesive tape	12.0 for hot-sealing adhesive tape	12.0 for hot-sealing adhesive tape	12.0 for hot-sealing adhesive tape	12.0 for hot-sealing adhesive tape					
Hole position	W <sub>1</sub>	9.0 ±0.5	9.0 ±0.5	9.0 ±0.5	9.0 ±0.5	9.0 ±0.5	9.0 ±0.5	9.0 ±0.5					
Hold-down tape position	W <sub>2</sub>	0.5 to 3.0 max.	0.5 to 3.0 max.	0.5 to 3.0 max.	0.5 to 3.0 max.	0.5 to 3.0 max.	0.5 to 3.0 max.	0.5 to 3.0 max.					
Feed hole diameter	D <sub>0</sub>	4.0 ±0.2	4.0 ±0.2	4.0 ±0.2	4.0 ±0.2	4.0 ±0.2	4.0 ±0.2	4.0 ±0.2					
Pitch of component	Р	12.7 ±1.0	12.7 ±1.0	12.7 ±1.0	25.4 ±1.0	25.4 ±1.0	38.1 ±1.5	38.1 ±1.5 or 50.8 ±1.5					
Feed hole pitch	Po	cumulative pitch 12.7 ±0.3 error max. 1.0 mm/20 pitch	cumulative pitch error max. 1.0 mm/20 pitch	cumulative pitch 12.7 ±0.3 error max. 1.0 mm/20 pitch	cumulative pitch 12.7 ±0.3 error max. 1.0 mm/20 pitch	cumulative pitch 12.7 ±0.3 error max. 1.0 mm/20 pitch	cumulative pitch 12.7 ±0.3 error max. 1.0 mm/20 pitch	cumulative pitch 12.7 ±0.3 error max. 1.0 mm/20 pitch					
Feed hole centre to pin	P1	5.1 ±0.5	3.85 ±0.7	2.6 ±0.7	7.7 ±0.7	5.2 ±0.7	7.8 ±0.7	5.3 ±0.7					
Hole centre to component centre	P <sub>2</sub>	6.35 ±1.3	6.35 ±1.3	6.35 ±1.3	12.7 ±1.3	12.7 ±1.3	19.05 ±1.3	19.05 ±1.3					
Feed hole centre to bottom	н	16.5 ±0.3	16.5 ±0.3	16.5 ±0.5	16.5 ±0.5	16.5 ±0.5	16.5 ±0.5	16.5 ±0.5					
edge of the component	11	18.5 ±0.5	18.5 ±0.5	18.5 ±0.5	18.5 ±0.5	18.5 ±0.5	18.5 ±0.5	18.5 ±0.5					
Feed hole centre to top edge of the component	H1	H+H <sub>component</sub> < H <sub>1</sub> 32.25 max.	H+H <sub>component</sub> < H <sub>1</sub> 32.25 max.	H+H <sub>component</sub> < H <sub>1</sub> 24.5 to 31.5	H+H <sub>component</sub> < H <sub>1</sub> 25.0 to 31.5	H+H <sub>component</sub> < H <sub>1</sub> 26.0 to 37.0	H+H <sub>component</sub> < H <sub>1</sub> 30.0 to 43.0	H+H <sub>component</sub> < H <sub>1</sub> 35.0 to 45.0					
Pin spacing at upper edge of carrier tape	F	2.5 ±0.5	5.0 <sup>+0.8</sup> <sub>-0.2</sub>	7.5 ±0.8	10.0 ±0.8	15 ±0.8	22.5 ±0.8	27.5 ±0.8					
Pin diameter	d	0.4 ±0.05	0.5 ±0.05	$^{\circ}0.5 \pm 0.05 \text{ or } 0.6 + 0.06 \\ -0.05$	$^{\circ}0.5 \pm 0.05 \text{ or } 0.6 + 0.06 - 0.05$	0.8 +0,08	0.8 +0,08	0.8 +0.08					
Component alignment	Δh	± 2.0 max.	± 2.0 max.	± 3.0 max.	± 3.0 max.	± 3.0 max.	± 3.0 max.	± 3.0 max.					
Total tape thickness	t	0.7 ±0.2	0.7 ±0.2	0.7 ±0.2	0.7 ±0.2	0.7 ±0.2	0.7 ±0.2	0.7 ±0.2					
		ROLL//	AMMO		АММО								
Package (see also page 149)		REEL Ø 360 max. Ø 30 ±1	$\left. B \begin{array}{c} 52 \pm 2 \\ 58 \pm 2 \end{array} \right\} \begin{array}{c} \text{depending on} \\ \text{comp. dimensions} \end{array}$	REEL									
Unit					see details page 150.								

Dims in mm.

Diameter of pins see General Data. ٠

PCM 10 and PCM 15 can be crimped to PCM 7.5. Position of components according to PCM 7.5 (sketch 1).  $P_0 = 12.7$  or 15.0 is possible

Please clarify customer-specific deviations with the manufacturer.



## BAR CODE (Labelling)

Labelling of package units in plain text and with alphanumerical Bar Code

Scanner decoding of

- WIMA supplier number
- Customer's P/O number
- Customer's part number
- WIMA confirmation number
- WIMA part number
- Lot number
- Date code
- Quantity

In addition part description of

- article
- capacitance value
- rated voltage
- dimensions
- capacitance tolerancepacking

as well as gross weight and customer's name are indicated in plain text.



## Packing Quantities for Capacitors with -Radial Pins in PCM 2.5 mm to 22.5 mm

					pcs. per packing unit									
		Si	ze			ROLL		EL	АММО					
PCM		0.	20		bulk			Ø 500	340 × 340	490 × 370				
	W	Н		Codes	S				;;					
	2.5	7	4.6	OB	5000	<u> </u>		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·					
	3	7.5	4.6	0C	5000	2000		_		-				
2.5 mm	3.8	8.5	4.6	0D	5000	1500	1800	-	1800	-				
	4.6	9	4.6	0E	5000	1200	1H18.5H18	-						
	5.5	10	4.6	0F	5000			-		-				
	2.5	6.5	7.2	1A	5000	2200		-		-				
	3	7.5	7.2	1B	5000			-		-				
	3.5 4.5	8.5 6	7.2 7.2	1C 1D	5000 6000			-		-				
	4.5	9.5	7.2	16	4000			_		_				
	5	10	7.2	1F	3500	1100		_		_				
5 mm	5.5	7	7.2	1G	4000	1000		-		-				
5 mm	5.5	11.5	7.2	1H	2500	1000		-		-				
	6.5	8	7.2	11	2500			-		-				
	7.2	8.5	7.2	1J 1K	2500			-		-				
	7.2 8.5	13 10	7.2 7.2	11	2000 2000			_		_				
	8.5	14	7.2	1M	1500			_		_				
	11	16	7.2	1N	1000			_		-				
	2.5	7	10	2A	5000	_	2500	4400	2500	_				
	3	8.5	10	2B	5000	-	2200			4150				
7 5	4	9	10	2C	4000	-				3100				
7.5 mm	4.5	9.5	10.3	2D	3500	-				2700				
	5	10.5	10.3	2E	3000	-				-				
	5.7 7.2	12.5 12.5	10.3 10.3	2F 2G	2000 1500	-				_				
	3	9	13	3A	3000					1900				
	4	8.5	13.5	FA	3000					1900				
	4	9	13	3C	3000					1450				
	4	9.5	13	3D	3000	-	900		_	1400				
10 mm	5	10	13.5	FB	2000	-			-	1200				
	5	11	13	3F	3000	-			-	1200				
	6	12 12.5	13 13	3G 3H	2400 2400	-			-	1000 1000				
	8	12.5	13	31	2400					740				
	5	11	18	4B	2400					1150				
	5	13	19	FC	1000					1200				
	6	12.5	18	4C	2000					1000				
	6	14	19	FD	1000	-			-	1000				
	7	14	18	4D	1600					850				
15 mm	7	15	19	FE	1000	-			-	850				
15 mm	8	15 17	18 19	4F FF	1200 500	-			_	740 740				
	9	14	18	4H	1200	_			_	650				
	9	16	18	4J	900	_			_	650				
	10	18	19	FG	500	-	300	650	-	590				
	11	14	18	4M	1000	-	300	600	-	540				
	5	14	26.5	5A	1200	-	-		-	770				
	6	15	26.5	5B	1000				-	640				
	7	16.5 20	26.5 28	5D FH	760 500	-	-	600	-	550 480				
00.5	8.5	18.5	28 26.5	5F	500	_	_		_	480 450				
22.5 mm	10	22	20.5	FI	570*	-	-		-	380				
	10.5	19	26.5	5G	594*	-	-		-	360				
	10.5	20.5	26.5	5H	594*	-	-	400	-	360				
	11	21	26.5	51	561*					350				
	12	24	28	FJ	480*	-	-	350	-	310				

 TPS (Tray-Packing-System). Plate versions may have different packing units. Samples and pre-production needs on request. Moulded versions.

ions. Rights reserved to amend design data without prior notification.



## Packing Quantities for Capacitors with Radial Pins in PCM 27.5 mm to 52.5 mm

								pcs	. per p	acking u	unit					
		Siz	70			RC	DLL		RE	EL			AMMO			
PCM		JI.	20		bulk		ø 360		Ø 500		340 × 340			× 370		
						H16.5	H18.5	H16.5	H18.5	H16.5	H18.5	H16.5	H18.5	H16.5	H18.5	
	W	Н	L	Codes	S	N	0	F	1	Н	J	Α	С	В	D	
	9	19	31.5	6A	567*	-	_	-		460/	340*	-	-	420		
	11	21	31.5	6B	459*	-	-	-		380/		-	-	350		
	13	24	31.5	6D	378*	-	-	-			00	-	-	2	90	
	13	25	33	FK	405*	-	-	-			-	-	-	-	-	
27.5 mm	15	26	31.5	6F	324*	-	-	-			70	-	-		50	
	15 17	26 29	33 31.5	FL 6G	324* 198*	-	-	-		-	-	-	-		-	
	17	29 34.5	31.5	61	198*		-	-			_		_		_	
	20	32	33	FM	162*	-	_	_		_	_	_	_	-	_	
	20	39.5	31.5	6J	162*	-	-	-		-	-	-	-	-		
	9	19	41.5	7A	441*	-	_			-	_	-				
	11	22	41.5	7B	357*	-	-	-		-	-	-		-		
	13	24	41.5	7C	294*	-	-	-		-	-	-	-	-		
	15 17	26 29	41.5	7D 7E	252* 154*	-	-	-		-		-		-		
37.5 mm	17	29 32	41.5 41.5	7E 7F	154* 140*	-	_	_		-	_	_		_		
07.5	20	39.5	41.5	7G	126*		_	_			_	_		_		
	24	45.5	41.5	7H	112*	-	-	_		-		-		-		
	31	46	41.5	71	84*	-	-	-		-		-		-		
	35	50	41.5	7J	35*	-	-	-		-	-	-		-		
	40	55	41.5	7K	28*	-	_	-		-		-			-	
	19	31	56	8D	120*	-	-	-		-	-	-	-		-	
48.5 mm	23 27	34 37.5	56 56	8E 8H	80* 84*	-	-	-		-	-	-	-	-	-	
40.5 mm	33	37.5 48	зо 56	81 81	84* 25*	-	_	-		-	_	-	_	-	_	
	37	40 54	56	8L	25* 25*	-	_	_		_	-	-	_	_		
	25	45	57	9D	70*	-	_	_		_		_		_		
50 5	30	45	57	9E	60*											
52.5 mm	35	50	57	9F	25*											
	45 45	55 65	57 57	9H 9J	20* 20*	-		-		-		-		-	-	
	43	00	5/	7J	20.	-	_	-		-	-	-	-	-		

Moulded versions. Rights reserved to amend design data without prior notification.

for 2-inch transport pitches.
TPS (Tray-Packing-System). Plate versions may have different packing units. Samples and pre-production needs on request.

Updated data on www.wima.com

### WIMA Part Number System

A WIMA part number consists of 18 digits and is composed as follows:

- Field 1 4: Type description
- Field 5 6: Rated voltage
- Field 7 10: Capacitance
- Field 11 12: Size and PCM
- Field 13 14: Version code (e.g. Snubber versions)
- Field 15: Capacitance tolerance
- Field 16: Packing
- Field 17 18: Pin length (untaped)

| 1   | 2  | 3   | 4   | 5   
   
   
   | 6  | 7  
   
  | 8   | 9     | 10   | 11   | 12  | 13   
   | 14 | 15  | 16  | 17   | 18                      |
|---|--|---|---
--
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---|--
--
--
---|---|-------|--|--|---|--|----
---|---|--|-------------------------|
| м   | К  | S   | 2   | с   
   
   
   | 0  | 2  
   
  | 1   | 0     | 0  | 1  | A   | 0  
   | 0  | м   | S   | S  | D                       |
|   | MKS  | 52  |   | 63 \  
   
   
   | /DC  |  
   
  | 0.0   | )1 µF |  | 2.5×6  | .5 x 7.2  | -  
   |    | 20%   | bulk  | 6  | -2                      |
| SMD-F<br>SMD-F<br>SMD-P<br>FKP 02<br>MKS 0<br>FKS 2<br>FKP 2<br>FKS 3<br>FKP 3<br>MKS 2<br>MKP 2<br>MKS 4<br>MKP 4<br>MKP 4<br>MKP 4<br>MKP 4<br>MKP 4<br>MKP 4<br>MKP 4<br>MKP -X<br>MKP-X<br>MKP-X<br>MKP-X<br>MKP 3-><br>MP 3-><br>M | descripti<br>PET<br>PEN<br>PPS<br>20<br>20<br>21<br>22<br>22<br>23<br>24<br>24<br>24<br>25<br>24<br>25<br>26<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27 | on:<br>= SA<br>= SA<br>= SA<br>= SA<br>= SA<br>= KK<br>= KK<br>= KK<br>= MI<br>= DOC<br>= DOC<br>DOC<br>DOC<br>DOC<br>DOC<br>DOC<br>DOC<br>DOC<br>DOC<br>DOC | ADD       ADD       S2       P3       P4       P3       P4       P3       P4       P4   < | 63 \           Rated v           50 \           50 \           250 \           250 \           250 \           250 \           250 \           250 \           250 \           250 \           250 \           400 \           450 \           600 \           630 \           700 \           630 \           700 \           850 \           900 \           1000 \           1200 \           1200 \           1200 \           1200 \           1200 \           1200 \           1200 \           1200 \           1200 \           1200 \           1200 \           1200 \           1200 \           1200 \           2000 \           2000 \           2000 \           2000 \           2000 \           2000 \           2000 \           200 \           200 \           200 \           200 \ <tr< th=""><th>= BC         <math>=</math> C(2)         <math>=</math> D(2)         <math>=</math> D(2)         <math>=</math> D(2)         <math>=</math> D(2)         <math>=</math> H(2)         <math>=</math> D(2)         <math>=</math> D(2)         <math>=</math> C(2)         <math>=</math> C(2)         <math>=</math> D(2)         <math>=</math> D(2)         <math>=</math> D(2)         <math>=</math> C(2)         <math>=</math> C(2)         <math>=</math> C(2)         <math>=</math> C(2)         <math>=</math> D(2)         <math>=</math> D(2)</th><th>220       47         0       10         10       15         0       22         0       33         22       47         68       100         0       15         0       22         0       15         0       22         0       15         0       22         0       0.0         0       0.0         0       0.0         0       0.0         0       0.1         0       0.2         0       0.1         0       0.2         0       0.2         0       0.2         0       0.2         0       0.2         0       0.2         0       10         0       10         0       10         0       10         0       10         0       10         0       10         0       10         0       10         0       10         0       10         <t< th=""><th>apacito           2         pF           2         pF           30         pF           300         pF           30         µF           30         µF           30         µF           30         µF           30         µF           30         µF           30         µF</th><th></th><th>4.8x<br/>5.7x<br/>5.7x<br/>7.2x<br/>7.2x<br/>10.2<br/>12.75<br/>15.35<br/>2.5x<br/>3x7.<br/>2.5x<br/>3x7.<br/>2.5x<br/>3x8.<br/>3x9<br/>4x9<br/>5x11<br/>6x12<br/>5x14<br/>6x12<br/>5x14<br/>6x12<br/>9x19<br/>11x2<br/>9x19<br/>11x2<br/>19x3<br/>25x<sup>4</sup><br/></th><th>3.3 x 3 s<br/>3.3 x 4 s<br/>5.1 x 3.5<br/>5.1 x 3.5<br/>5.1 x 4.5<br/>6.1 x 3 s<br/>6.1 x 5 s<br/>x 7.6 x 5<br/>(10.2 x 6<br/>f<br/>x 7.6 x 5<br/>x 7.2 F<br/>7 x 10 PC<br/>5 x 10 PC<br/>x 13 PC<br/>x 14 PC<br/>x 15 T<br/>x 15 PC<br/>x 15 T<br/>x 15</th><th>Size 1812<br/>Size 1812<br/>Size 22<br/>Size 22<br/>Size 222<br/>Size 222<br/>Size 224<br/>Size 202<br/>7 Size 602<br/>7 Size 602<br/>7 Size 602<br/>7 Size 602<br/>7 CM 2.5<br/>PCM 5<br/>PCM 5<br/>PCM 5<br/>PCM 5<br/>PCM 15<br/>PCM 15<br/>PCM 15<br/>PCM 15<br/>PCM 15<br/>PCM 22<br/>PCM 27<br/>PCM 27<br/>PCM 27<br/>PCM 37<br/>PCM 37<br/>PCM 32<br/>PCM 52.</th><th>2 = K <math display="block">2 = K</math> <math display="block">20 = 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M<br/>= K<br/>= J<br/>= H<br/>= E<br/>H16.5 3<br/>H16.5 4<br/>H18.5 4<br/>H18.5 4<br/>H18.5 3<br/>H16.5 4<br/>H18.5 3<br/>H18.5 4<br/>H18.5 3<br/>H18.5 4<br/>H18.5 3<br/>H18.5 3<br/>H18.5</th><th>40 × 340<br/>90 × 370<br/>40 × 340<br/>90 × 370<br/>90 × 370<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>1<br/>rd</th><th>) = A<br/>) = B<br/>) = C</th></t<></th></tr<> | = BC $=$ C(2) $=$ D(2) $=$ D(2) $=$ D(2) $=$ D(2) $=$ H(2) $=$ D(2) $=$ D(2) $=$ C(2) $=$ C(2) $=$ D(2) $=$ D(2) $=$ D(2) $=$ C(2) $=$ C(2) $=$ C(2) $=$ C(2) $=$ D(2) | 220       47         0       10         10       15         0       22         0       33         22       47         68       100         0       15         0       22         0       15         0       22         0       15         0       22         0       0.0         0       0.0         0       0.0         0       0.0         0       0.1         0       0.2         0       0.1         0       0.2         0       0.2         0       0.2         0       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M<br/>= K<br/>= J<br/>= H<br/>= E<br/>H16.5 3<br/>H16.5 4<br/>H18.5 4<br/>H18.5 4<br/>H18.5 3<br/>H16.5 4<br/>H18.5 3<br/>H18.5 4<br/>H18.5 3<br/>H18.5 4<br/>H18.5 3<br/>H18.5 3<br/>H18.5</th><th>40 × 340<br/>90 × 370<br/>40 × 340<br/>90 × 370<br/>90 × 370<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>1<br/>rd</th><th>) = A<br/>) = B<br/>) = C</th></t<> | apacito           2         pF           2         pF           30         pF           300         pF           30         µF           30         µF           30         µF           30         µF           30         µF           30         µF           30         µF |       | 4.8x<br>5.7x<br>5.7x<br>7.2x<br>7.2x<br>10.2<br>12.75<br>15.35<br>2.5x<br>3x7.<br>2.5x<br>3x7.<br>2.5x<br>3x8.<br>3x9<br>4x9<br>5x11<br>6x12<br>5x14<br>6x12<br>5x14<br>6x12<br>9x19<br>11x2<br>9x19<br>11x2<br>19x3<br>25x <sup>4</sup><br> | 3.3 x 3 s<br>3.3 x 4 s<br>5.1 x 3.5<br>5.1 x 3.5<br>5.1 x 4.5<br>6.1 x 3 s<br>6.1 x 5 s<br>x 7.6 x 5<br>(10.2 x 6<br>f<br>x 7.6 x 5<br>x 7.2 F<br>7 x 10 PC<br>5 x 10 PC<br>x 13 PC<br>x 14 PC<br>x 15 T<br>x 15 PC<br>x 15 T<br>x 15 | Size 1812<br>Size 1812<br>Size 22<br>Size 22<br>Size 222<br>Size 222<br>Size 224<br>Size 202<br>7 Size 602<br>7 Size 602<br>7 Size 602<br>7 Size 602<br>7 CM 2.5<br>PCM 5<br>PCM 5<br>PCM 5<br>PCM 5<br>PCM 15<br>PCM 15<br>PCM 15<br>PCM 15<br>PCM 15<br>PCM 22<br>PCM 27<br>PCM 27<br>PCM 27<br>PCM 37<br>PCM 37<br>PCM 32<br>PCM 52. | 2 = K $2 = K$ $20 = G$ $20 = G$ $20 = G$ $4 = T$ $4 = T$ $30 = V$ $40 = X$ $40 = X$ $40 = X$ $54 = Y$ $60$ $= 0$ $= 1$ $= 2$ $= 3$ $= 4$ $= 4$ $= 5$ |    | 20%<br>Toleran<br>±20%<br>±10%<br>±5%<br>±2.5%<br>±1%<br><br>Packing<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMMO<br>AMM | ce:<br>= M<br>= K<br>= J<br>= H<br>= E<br>H16.5 3<br>H16.5 4<br>H18.5 4<br>H18.5 4<br>H18.5 3<br>H16.5 4<br>H18.5 3<br>H18.5 4<br>H18.5 3<br>H18.5 4<br>H18.5 3<br>H18.5 | 40 × 340<br>90 × 370<br>40 × 340<br>90 × 370<br>90 × 370<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>1<br>rd | ) = A<br>) = B<br>) = C |

The data on this page is not complete and serves only to explain the part number system. Part number information is listed on the pages of the respective WIMA range.