WIMA SMD-PET



Metallized Polyester (PET) SMD Film Capacitors with Box Encapsulation. Capacitances from 0.01 μ F to 6.8 μ F. Rated Voltages from 63 VDC to 1000 VDC. Size Codes from 1812 to 6054.

Special Features

- Size codes 1812, 2220, 2824, 4030, 5040 and 6054 with PET and encapsulated
- Operating temperature up to 100° C
- Self-healing
- According to RoHS 2011/65/EU

Typical Applications

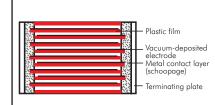
For general DC-applications e.g.

- By-pass
- Blocking
- Coupling and decoupling
- Timing

Construction

Dielectric:

Polyethylene-terephthalate (PET) film Capacitor electrodes: Vacuum-deposited Internal construction:



Encapsulation:

Solvent-resistant, flame-retardant plastic case, UL 94 V-0

Terminations:

Tinned plates. Marking:

Box colour: Black.

Electrical Data

Capacitance range: 0.01 μF to 6.8 μF **Rated voltages:** 63 VDC, 100 VDC, 250 VDC, 400 VDC, 630 VDC, 1000 VDC

Capacitance tolerances: ±20%, ±10% (±5% available subject to special enquiry)

Operating temperature range: -55° C to +100° C (+125° C available subject to special enquiry)

Climatic test category: 55/100/21 according to IEC for size codes 1812 to 2824 55/100/56 according to IEC

for size codes 4030 to 6054 Insulation resistance at +20° C:

U _r	U _{test}	C ≤ 0.33 µF	0.33 µF < C ≤ 6.8 µF
63 VDC 100 VDC	50 V 100 V	≥ 3.75 x 10 ³ MΩ	≥ 1250 sec (M Ω × μF)
≥ 250 VDC	100 V	\ge 1 x 10 ⁴ MQ	\geq 3000 sec (M $\Omega \times \mu$ F)

Test voltage: 1.6 U_r, 2 sec.

A voltage derating factor of 1.25 % per K

must be applied from +85° C for DC

voltages and from +75° C for AC

Operational life > 300 000 hours

Failure rate < 2 fit (0.5 x U_r and 40° C)

Voltage derating:

voltages

Reliability:

Measuring time: 1 min.

Dissipation factors at +20° C: tan δ

at f	C ≤ 0.1 µF	0.1 µF < C ≤ 1.0 µF	C > 1.0 µF
1 kHz	≤ 8 x 10 ⁻³	≤ 8 x 10 ⁻³	\leq 10 x 10 ⁻³
10 kHz 100 kHz	≤ 15 x 10 ⁻³ ≤ 30 x 10 ⁻³	≤ 15 x 10 ⁻³ -	

Maximum pulse rise time: for pulses equal to the rated voltage

Capacitance		Pulse	e rise time V	/µsec										
μF		max. operation/test												
μι	63 VDC	100 VDC	250 VDC	400 VDC	630 VDC	1000 VDC								
0.01 0.022	30/300	35/350	40/400	35/350	40/400	50/500								
0.033 0.068	20/200	20/200	40/400	21/210	25/250	32/320								
0.1 0.22	10/100	10/100	12/120	14/140	17/170	-								
0.33 0.68	8/80	6/60	9/90	10/100	-	-								
1.0 2.2	3.5/35	4/40	7/70	-	-	-								
3.3 6.8	3/30	3/30	-	-	-	-								

Dip Solder Test/Processing

Resistance to soldering heat:

Test Tb in accordance with DIN IEC 60068-2-58/DIN EN 60384-19. Soldering bath temperature max. 260° C. Soldering duration max. 5 sec. Change in capacitance Δ C/C < 5%. **Soldering process:**

Re-flow soldering (see temperature/time graphs page 13).

Packing

Available taped and reeled in blister pack.

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

For further details and graphs please refer to Technical Information.

WIMA SMD-PET



Continuation

General Data

		63	SVDC/40 VAC*		10	0 VDC/63 VAC*	250 VDC/160 VAC*				
Capacitance	Size code	H ± 0.3	Part number	Size code	H ± 0.3	Part number	Size code	H ± 0.3	Part number		
0.01 µF	1812 2220 2824	3.0 3.5 3.0	SMDTC02100KA00 SMDTC02100QA00 SMDTC02100TA00	1812 2220 2824	3.0 3.5 3.0	SMDTD02100KA00 SMDTD02100QA00 SMDTD02100TA00	2220 2824	3.5 3.0	SMDTF02100QA00 SMDTF02100TA00		
0.015 "	1812 2220 2824	3.0 3.5 3.0	SMDTC02150KA00 SMDTC02150QA00 SMDTC02150TA00	1812 2220 2824	3.0 3.5 3.0	SMDTD02150KA00 SMDTD02150QA00 SMDTD02150TA00	2220 2824	3.5 3.0	SMDTF02150QA00 SMDTF02150TA00		
0.022 "	1812 2220 2824	3.0 3.5 3.0	SMDTC02220KA00 SMDTC02220QA00 SMDTC02220TA00	1812 2220 2824	3.0 3.5 3.0	SMDTD02220KA00 SMDTD02220QA00 SMDTD02220TA00	2220 2824	3.5 3.0	SMDTF02220QA00 SMDTF02220TA00		
0.033 "	1812 2220 2824	3.0 3.5 3.0	SMDTC02330KA00 SMDTC02330QA00 SMDTC02330TA00	1812 2220 2824	3.0 3.5 3.0	SMDTD02330KA00 SMDTD02330QA00 SMDTD02330TA00	2220 2824 4030	3.5 3.0 5.0	SMDTF02330QA00 SMDTF02330TA00 SMDTF02330VA00		
0.047 "	1812 2220 2824	3.0 3.5 3.0	SMDTC02470KA00 SMDTC02470QA00 SMDTC02470TA00	1812 2220 2824	3.0 3.5 3.0	SMDTD02470KA00 SMDTD02470QA00 SMDTD02470TA00	2220 2824 4030	3.5 3.0 5.0	SMDTF02470QA00 SMDTF02470TA00 SMDTF02470VA00		
0.068 "	1812 2220 2824	3.0 3.5 3.0	SMDTC02680KA00 SMDTC02680QA00 SMDTC02680TA00	1812 2220 2824	3.0 3.5 3.0	SMDTD02680KA00 SMDTD02680QA00 SMDTD02680TA00	2220 2824 4030	4.5* 3.0 5.0	SMDTF02680QB00 SMDTF02680TA00 SMDTF02680VA00		
0.1 µF	1812 2220 2824	4.0* 3.5 3.0	SMDTC03100KB00 SMDTC03100QA00 SMDTC03100TA00	1812 2220 2824	4.0* 3.5 3.0	SMDTD03100KB00 SMDTD03100QA00 SMDTD03100TA00	2220 2824 4030	4.5* 5.0 5.0	SMDTF03100QB00 SMDTF03100TB00 SMDTF03100VA00		
0.15 "	1812 2220 2824	4.0* 3.5 3.0	SMDTC03150KB00 SMDTC03150QA00 SMDTC03150TA00	1812 2220 2824	4.0 3.5 3.0	SMDTD03150KB00 SMDTD03150QA00 SMDTD03150TA00	2824 4030	5.0 5.0	SMDTF03150TB00 SMDTF03150VA00		
0.22 "	1812 2220 2824	4.0* 3.5 3.0	SMDTC03220KB00 SMDTC03220QA00 SMDTC03220TA00	1812 2220 2824	4.0 3.5 3.0	SMDTD03220KB00 SMDTD03220QA00 SMDTD03220TA00	2824 4030	5.0 5.0	SMDTF03220TB00 SMDTF03220VA00		
0.33 "	1812 2220 2824	4.0 4.5* 5.0*	SMDTC03330KB00 SMDTC03330QB00 SMDTC03330TB00	2220 2824 4030	4.5 5.0 5.0	SMDTD03330QB00 SMDTD03330TB00 SMDTD03330VA00	2824 4030 5040	5.0 5.0 6.0	SMDTF03330TB00 SMDTF03330VA00 SMDTF03330XA00		
0.47 "	1812 2220 2824	4.0 4.5* 5.0*	SMDTC03470KB00 SMDTC03470QB00 SMDTC03470TB00	2220 2824 4030	4.5 5.0 5.0	SMDTD03470QB00 SMDTD03470TB00 SMDTD03470VA00	4030 5040	5.0 6.0	SMDTF03470VA00 SMDTF03470XA00		
0.68 "	2220 2824 4030	4.5 5.0* 5.0	SMDTC03680QB00 SMDTC03680TB00 SMDTC03680VA00	2824 4030 5040	5.0 5.0 6.0	SMDTD03680TB00 SMDTD03680VA00 SMDTD03680XA00	5040	6.0	SMDTF03680XA00		
1.0 µF	2220 2824 4030	4.5 5.0* 5.0	SMDTC04100QB00 SMDTC04100TB00 SMDTC04100VA00	2824 4030 5040	5.0 5.0 6.0	SMDTD04100TB00 SMDTD04100VA00 SMDTD04100XA00	6054	7.0	SMDTF04100YA00		
1.5 "	2824 4030	5.0 5.0	SMDTC04150TB00 SMDTC04150VA00	4030 5040	5.0 6.0	SMDTD04150VA00 SMDTD04150XA00		ion ac availal	cording to catalogue 2013 ble		
2.2 "	2824 4030	5.0 5.0	SMDTC04220TB00 SMDTC04220VA00	5040	6.0	SMDTD04220XA00					
3.3 "	4030	5.0	SMDTC04330VA00	5040	6.0	SMDTD04330XA00		<u> </u>	number completion: rance: 20 % = M		
4.7 "	5040	6.0	SMDTC04470XA00	6054	7.0	SMDTD04470YA00		Pack	10% = K 5% = J		
6.8 "	6054	7.0	SMDTC04680YA00					Pin le	ength: none = 00 ad version see page 148.		
* * *		1.4									

* AC voltage: f = 50 Hz; 1.4 x U_{rms} + UDC \leq U_r

Dims. in mm.

Rights reserved to amend design data without prior notification.

WIMA SMD-PET

Continuation

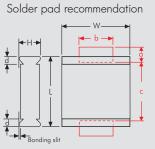


General Data

		40	0 VDC/200 VAC*		63	0 VDC/300 VAC*	1000 VDC/400 VAC*					
Capacitance	Size code	Н ± 0.3	Part number	Size code	H ± 0.3	Part number	Size code	Н ± 0.3	Part number			
0.01 µF	2824 4030	3.0 5.0	SMDTG02100TA00 SMDTG02100VA00	4030	5.0	SMDTJ02100VA00						
0.015 "	2824 4030	3.0 5.0	SMDTG02150TA00 SMDTG02150VA00	4030	5.0	SMDTJ02150VA00	5040	6.0	SMDTO12150XA00			
0.022 "	2824 4030	5.0* 5.0	SMDTG02220TB00 SMDTG02220VA00	5040	6.0	SMDTJ02220XA00	5040	6.0	SMDTO12220XA00			
0.033 "	2824 4030	5.0 5.0	SMDTG02330TB00 SMDTG02330VA00	5040	6.0	SMDTJ02330XA00	5040	6.0	SMDTO12330XA00			
0.047 "	2824 4030	5.0 5.0	SMDTG02470TB00 SMDTG02470VA00	5040	6.0		6054	7.0	SMDTO12470YA00			
0.068 "	4030 5040	5.0 6.0	SMDTG02680VA00 SMDTG02680XA00	5040	6.0	SMDTJ02680XA00						
0.1 µF	4030 5040	5.0 6.0	SMDTG03100VA00 SMDTG03100XA00	6054	7.0	SMDTJ03100YA00						
0.15 "	4030 5040	5.0 6.0	SMDTG03150VA00 SMDTG03150XA00	6054	7.0	SMDTJ03150YA00						
0.22 "	5040	6.0	SMDTG03220XA00	6054	7.0	SMDTJ03220YA00						
0.33 "	5040	6.0	SMDTG03330XA00									
0.47 "	6054	7.0	SMDTG03470YA00									

* AC voltage: f = 50 Hz; 1.4 x U_{rms} + UDC \leq U_r

* Version according to catalogue 2013 still available



2

L	W	d	а	b	С	
±0.3	±0.3		min.	min.	max.	
4.8	3.3	0.5	1.2	3.5	3.5	
5.7	5.1	0.5	1.2	4	4.5	
7.2	6.1	0.5	1.2	4	6.5	
10.2	7.6	0.5	2.5	6	9	
12.7	10.2	0.7	2.5	6	11.5	
15.3	13.7	0.7	2.5	6	14	
	4.8 5.7 7.2 10.2 12.7	5.75.17.26.110.27.612.710.2	±0.3 ±0.3 4.8 3.3 0.5 5.7 5.1 0.5 7.2 6.1 0.5 10.2 7.6 0.5 12.7 10.2 0.7	±0.3 ±0.3 min. 4.8 3.3 0.5 1.2 5.7 5.1 0.5 1.2 7.2 6.1 0.5 1.2 10.2 7.6 0.5 2.5 12.7 10.2 0.5 2.5	±O.3 ±O.3 min. min. 4.8 3.3 0.5 1.2 3.5 5.7 5.1 0.5 1.2 4 7.2 6.1 0.5 1.2 4 10.2 7.6 0.5 1.2 4 10.2 7.6 0.5 2.5 6 12.7 10.2 0.7 2.5 6	±O.3 ±O.3 min. min. max. 4.8 3.3 0.5 1.2 3.5 3.5 5.7 5.1 0.5 1.2 4.4 4.5 7.2 6.1 0.5 1.2 4 6.5 10.2 7.6 0.5 2.5 6 9 12.7 10.2 0.7 2.5 6 11.5

Part number	completion:
Tolerance:	20 % = M 10 % = K 5 % = J
Packing: Pin length:	bulk = S none = 00
Taped version	on see page 148.

Dims. in mm.

01.19

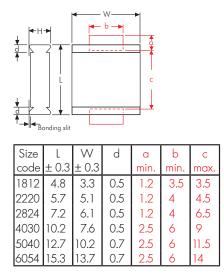
Recommendation for Processing and Application of SMD Capacitors



Layout Form

The components can generally be positioned on the carrier material as desired. In order to prevent soldering shadows or ensure regular temperature distribution, extreme concentration of the components should be avoided. In practice, it has proven best to keep a minimum distance of the soldering surfaces between two WIMA SMDs of twice the height of the components.

Solder Pad Recommendation



The solder pad size recommendations given for each individual series are to be understood as minimum dimensions which can at any time be adjusted to the layout form.

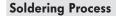
Processing

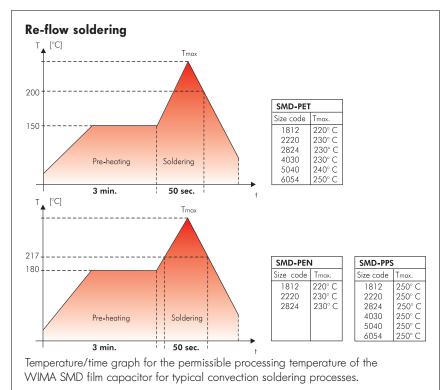
The processing of SMD components

- assembling

- soldering
- electrical final inspection/calibrating

must be regarded as a complete process. The soldering of the printed circuit board, for example, can constitute considerable stress on all the electronic components. The manufacturer's instructions on the processing of the components are mandatory.





Due to versatile procedures exact processing parameters for re-flow soldering processes cannot be specified. The graph depicted is to be understood as a recommendation to help establishing a suitable soldering profile fulfilling the requirements in practice at the user. During processing a max. temperature of $T=210^{\circ}$ C inside the component should not be exceeded. Due to the differing heat absorption the length of the soldering process should be kept as short as possible for smaller size codes.

SMD Handsoldering

WIMA SMD capacitors with plastic film dielectric are generally suitable for hand-soldering, e.g. for lab purposes, with a soldering iron where, however, similar to automated soldering processes, a certain duration and temperature should not be exceeded. These parameters are dependent on the physical size of the components and the relevant heat absorption involved. The below data are to be regarded as guideline values and should serve to avoid damage to the dielectric caused by excessive heat during the soldering process. The soldering quality depends on the tool used and on the skill and experience of the person with the soldering iron in hand.

Size code	Temperature °C / °F	Time duration
1812 2220 2824 4030 5040	250 / 482 250 / 482 260 / 500 260 / 500 260 / 500	2 sec plate 1 / 5 sec off / 2 sec plate 2 3 sec plate 1 / 5 sec off / 3 sec plate 2 3 sec plate 1 / 5 sec off / 3 sec plate 2 5 sec plate 1 / 5 sec off / 5 sec plate 2 5 sec plate 1 / 5 sec off / 5 sec plate 2
6054	260 / 500	5 sec plate 1 / 5 sec off / 5 sec plate 2 5 sec plate 1 / 5 sec off / 5 sec plate 2

Recommendation for Processing and Application of SMD Capacitors (Continuation)



Solder Paste

To achieve reliable soldering results one of the following solder alloys have from case to case proven being workable:

Lead free solder paste

Sn - Bi Sn - Zn (Bi) Sn - Ag - Cu (suitable for SMD-PET 5040/ 6054, SMD-PEN and SMD-PPS)

Solder paste with lead

Sn - Pb - Ag (Sn60-Pb40-A, Sn63-Pb37-A)

Washing

WIMA SMD components with plastic encapsulation - like all other components of similar construction irrespective of the make - cannot be regarded as hermetically sealed. Due to today's common washing substances, e.g. on aqueous basis instead of the formerly used halogenated hydrocarbons, with enhanced washing efficiency it became obvious that assembled SMD capacitors may show an impermissibly high deviation of the electrical parameters after a corresponding washing process. Hence it is recommended to refrain from applying industrial washing processes for WIMA SMD capacitors in order to avoid possible damages.

Initial Operation/Calibration

Due to the stress which the components are subjected to during processing, reversible parameter changes occur in almost all electronic components. The capacitance recovery accuracy to be expected with careful processing is within a scope of

|∆C/C**|**≤ 5 %.

For the initial operation of the device a minimum storage time of

 $t \ge 24$ hours

is to be taken into account. With calibrated devices or when the application is largely dependent on capacitance it is advisable to prolong the storage time to

t ≥ 10 days

In this way ageing effects of the capacitor structure can be anticipated. Parameter changes due to processing are not to be expected after this period of time

Humidity Protection Bags

Taped WIMA SMD capacitors are shipped in humidity protection bags according to JEDEC standard (ESD/EMI-shield/watervapour proof).

Under controlled conditions the components can be stored two years and more in the originally sealed bag. Opened packing units should immediately be used up for processing. If storage is necessary the opened packing units should be stored air-tight in the original plastic bag.

Reliability

Taking account of the manufacturer's guidelines and compatible processing, the WIMA SMD stand out for the same high quality and reliability as the analogous through-hole WIMA series. The technology of metallized film capacitors used e.g. in WIMA SMD-PET achieves the best values for all fields of application. The expected value is about:

$\lambda_0 \leqslant 2$ fit

Furthermore the production of all WIMA components is subject to the regulations laid down by ISO 9001:2015 as well as the guidelines for component specifications set out by IEC quality assessment system (IECQ) for electronic components.

Electrical Characteristics and Fields of Application

Basically the WIMA SMD series have the same electrical characteristics as the analogous through-hole WIMA capacitors. Compared to ceramic or tantalum dielectrics WIMA SMD capacitors have a number of other outstanding qualities:

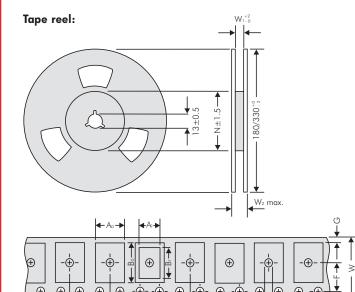
- favourable pulse rise time
- Iow ESR
- Iow dielectric absorption
- available in high voltage series
- large capacitance spectrum
- stand up to high mechanical stress
- good long-term stability

As regards technical performance as well as quality and reliability, the WIMA SMD series offer the possibility to cover nearly all applications of conventionally through-hole film capacitors with SMD components. Furthermore, the WIMA SMD series can now be used for all the demanding capacitor applications for which, in the past, the use of through-hole components was mandatory:

- measuring techniques
- oscillator circuits
- differentiating and integrating circuits
- A/D or D/A transformers
- sample and hold circuits
- automotive electronics

With the WIMA SMD programme available today, the major part of all plastic film capacitors can be replaced by WIMA SMD components. The field of application ranges from standard coupling capacitors to use in switch-mode power supplies as filter or charging capacitors with high voltage and capacitance values, as well as in telecommunications e.g. the well-known telephone capacitor $1 \mu F/250VDC$.

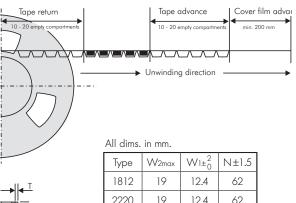
Blister Tape Packaging and Packing Units of the WIMA SMD Capacitors



⊕ -⇔--⇔- ⊕

Po

Tape advance and return:



· ···												
Туре	W2max	$W_{l\pm_0^2}$	N±1.5									
1812	19	12.4	62									
2220	19	12.4	62									
2824	19	12.4	62									
4030	22.4	16.4	60									
5040	30.4	24.4	90									
6054	30.4	24.4	90									

Size Code	1812	A0 +0.1	A۱	Bo ±0,1	Bı	Do +0,1	D1 +0,1	P ±0.1	Po* ±0.1	P2 ±0.05	E +0.1	F +0.05	G	W ±0,3	W0 ±0.2	K +0.1	T ±0,1
Box size	Code					-0	-0	2011		- 0.00		_ 0.00		20.0	- 0.2		
4.8×3.3×3	KA	3.55	3.3	5.1	4.8	Ø1.5	Ø1.5	8	4	2	1.75	5.5	2.2	12	9.5	3.4	0.3
4.8×3.3×4	КВ	3.55	3.3	5.1	4.8	Ø1.5	Ø1.5	8	4	2	1.75	5.5	2.2	12	9.5	4.4	0.3
Size Code	2220	A0 +0.1	A۱	B0 +0.1	Bı	Do +0,1	D1 +0,1	P +0.1	Po*	P2 ±0.05	E ±0.1	F +0.05	G	W ±0,3	W0 +0.2	K +0.1	T ±0,1
Box size	Code	± 0.1		- 0.1		-0	-0	- 0.1	- 0.1	10.00	1 ± 0.1	1.0.00		- 0.5	±0.2	- 0.1	1 - 0.1

-⊕- ⊕

 \oplus

Ð

-⊕

⊕ -⊕-

Cinc Carla	2024	Αn	A1	Bo	Bı	Do	Dı	P	P∩*	Po	F	F	G	W/	Wo	K	Т
5.7x5.1x4.5	QB	6.3	5.7	5.6	5.1	Ø1.5	Ø1.5	8	4	2	1.75	5.5	1.95	12	9.5	4.7	0.3
5.7×5.1×3.5	QA	6.3	5.7	5.6	5.1	Ø1.5	Ø1.5	8	4	2	1.75	5.5	1.95	12	9.5	3.7	0.3
Box size	Code	10.1		10.1		-0	-0	10.1	10.1	10.00	10.1	10.00		10.0	10.2	±0.1	10.1

Size Code	2824	A0 ±0.1	A	B0 ±0.1	BI			Р ±0.1	+0.1	+0.05	E +01	F ±0.05	G	±0.3	VV 0 ±0.2	► ±0.1	±0.1
Box size	Code	· · ·		10.1		-0	-0	10.1	10.1	10.00	10.1	± 0.00		10.5	±0.2	10.1	10.1
7.2×6.1×3	TA	6.6	6.1	7.7	7.2	Ø1.5	Ø1.5	12	4	2	1.75	5.5	0.9	12	9.5	3.4	0.3
7.2×6.1×5	TB	6.6	6.1	7.7	7.2	Ø1.5	Ø1.5	12	4	2	1.75	5.5	0.9	12	9.5	5.4	0.4

	Code	A0 ±0.1		Bo ±0.1						P2 ±0.05	E ±0.1	F ±0.05	G		₩0 ±0.2	K ±0.1	T ±0.1
Size Code 4030	VA	10.7	10.2	8.1	9.1	Ø1.5	Ø1.5	16	4	2	1.75	7.5	1.9	16	13.3	5.5	0.3
Size Code 5040	ХА	13.5	12.7	11	11.5	Ø1.5	Ø1.5	16	4	2	1.75	11.5	4.7	24	21.3	6.5	0.3
Size Code 6054	YA	17.0	16.5	15.6	15.0	Ø1.5	Ø1.5	20	4	2	1.75	11.5	2.95	24	21.3	7.5	0.3

* cumulative after 10 steps \pm 0.2 mm max.

⊕ ⊕

 \oplus \oplus

Samples and pre-production needs on request or 1 Reel minimum.

Packing units

taped Reel 180 mm Ø	taped Reel 330 mm Ø	bulk Standard
700	2500	3000
500	2000	3000

taped Reel 180 mm Ø	taped Reel 330 mm Ø	bulk Standard					
500	1800	3000					
400	1500	3000					

taped Reel	bulk
330 mm Ø	Standard
1500	2000
750	2000

taped Reel	bulk
330 mm Ø	Standard
775	2000
600	1000
450	500

Part number codes for SMD packing

W (Blister)	Ø in mm	Code
12	180	Р
12	330	Q
16	330	R
24	330	Т
Bulk Stan	dard	S

01.19

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
- D

Field 17	′ - 18: Pin	length	ı (untaj	ped)													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
м	К	S	2	с	0	2	1	0	0	1	Α	0	0	м	s	S	D
	MKS	52		63 \	/DC		0.0	1 µF		2.5×6	.5×7.2			20%	bulk	6	-2
SMD-F SMD-F SMD-F SMD-F FKP 02 MKS 0 FKP 2 FKS 3 FKP 3 MKS 2 MKS 2 MKS 4 MKP 4 MKP 4 MKP 4 MKP 4 MKP 4 MKP 4 MKP 4 MKP 4 MKP 3 MKP 3 MP 3-3 MP	2 2 2 2 2 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2	= SA $= SA$ $= SA$ $= SA$ $= FK$ $= FK$ $= FK$ $= MI$	ADD ADD SS2 PS3 PS2 PS2 </th <th>Rated v 50 VDC 63 VDC 250 VDC 400 VDC 400 VDC 400 VDC 520 VDC 600 VDC 600 VDC 600 VDC 800 VDC 800 VDC 800 VDC 800 VDC 1000 VE 1200 VE 1200 VE 1200 VE 1200 VE 1200 VE 1200 VE 1200 VE 1200 VE 2000 VE 2000</th> <th>= BC = CC = CC = CC = CC = CC = CC = C</th> <th>220 47 0 10 10 15 0 22 0 33 2 47 68 10 0 15 0 22 0 33 0 47 1 68 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10</th> <th>- pF = = 0 pF = 1 μF = 2 μF = 2 μF = 2 μF = 2 μF = 1 μF = 0 μF = 0 μF = 0 μF = 0 μF = 0 μF =</th> <th>= 0022 = 0047 = 0100 = 0150 = 0220 = 0330 = 0470 = 0680 = 1100</th> <th>4.8x 5.7x 5.7x 7.2x 7.2x 10.2: 1275 153; 2.5x 3x7, 2.5x 3x7, 2.5x 3x8, 3x9; 4x9; 5x11 6x12 5x14 6x12 5x14 6x12 9x19 11x2 9x19</th> <th>3.3 x 3 § 3.3 x 4 § 5.1 x 3.5 5.1 x 4.5 6.1 x 3 § 6.1 x 5 § x 7.6 x 5 (10.2 x 6 (10.2 x 6 (10.2 x 6 (10.2 x 6 (10.2 x 6 5 x 7.2 5 x 7.2 F x 10 P 5 x 26.5 5 x 26.5 7 x 31.5 1 x 31.5 1 x 31.5 1 x 56 1</th> <th>CM 7.5 CM 7.5 M 10 M 10</th> <th>2 = KK $220 = G$ $4 = TA$ $4 = TE$ $30 = V/$ $40 = X/$ $54 = Y/$ $= OE$ $= OC$ $= 1/$ $= 1/E$ $= 2/$ $= 3/$ $= 4E$ $= 4E$ $= 46$ $= 5/$ $.5 = 5/$</th> <th>A B B A A B A A B A C A C A C A A A B A B A B A B A B A B A B A B A B A B B <t< th=""><th>AMMO AMMO AMMO REEL H1 REEL H1 REEL H1 ROLL H1 ROLL H1 BLISTER BLISTER BLISTER BLISTER BLISTER</th><th>= M = K = J = H = E H16.5 3 H16.5 4 H18.5 3 H18.5 4 6.5 360 6.5 500 8.5 360 6.5</th><th>90 x 37(40 x 34(90 x 37(30 30 30 30 30</th><th>D = B D = C</th></t<></th>	Rated v 50 VDC 63 VDC 250 VDC 400 VDC 400 VDC 400 VDC 520 VDC 600 VDC 600 VDC 600 VDC 800 VDC 800 VDC 800 VDC 800 VDC 1000 VE 1200 VE 1200 VE 1200 VE 1200 VE 1200 VE 1200 VE 1200 VE 1200 VE 2000	= BC = CC = CC = CC = CC = CC = CC = C	220 47 0 10 10 15 0 22 0 33 2 47 68 10 0 15 0 22 0 33 0 47 1 68 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10	- pF = = 0 pF = 1 μF = 2 μF = 2 μF = 2 μF = 2 μF = 1 μF = 0 μF = 0 μF = 0 μF = 0 μF = 0 μF =	= 0022 = 0047 = 0100 = 0150 = 0220 = 0330 = 0470 = 0680 = 1100	4.8x 5.7x 5.7x 7.2x 7.2x 10.2: 1275 153; 2.5x 3x7, 2.5x 3x7, 2.5x 3x8, 3x9; 4x9; 5x11 6x12 5x14 6x12 5x14 6x12 9x19 11x2 9x19	3.3 x 3 § 3.3 x 4 § 5.1 x 3.5 5.1 x 4.5 6.1 x 3 § 6.1 x 5 § x 7.6 x 5 (10.2 x 6 (10.2 x 6 (10.2 x 6 (10.2 x 6 (10.2 x 6 5 x 7.2 5 x 7.2 F x 10 P 5 x 26.5 5 x 26.5 7 x 31.5 1 x 31.5 1 x 31.5 1 x 56 1	CM 7.5 CM 7.5 M 10 M 10	2 = KK $220 = G$ $4 = TA$ $4 = TE$ $30 = V/$ $40 = X/$ $54 = Y/$ $= OE$ $= OC$ $= 1/$ $= 1/E$ $= 2/$ $= 3/$ $= 4E$ $= 4E$ $= 46$ $= 5/$ $.5 = 5/$	A B B A A B A A B A C A C A C A A A B A B A B A B A B A B A B A B A B A B B <t< th=""><th>AMMO AMMO AMMO REEL H1 REEL H1 REEL H1 ROLL H1 ROLL H1 BLISTER BLISTER BLISTER BLISTER BLISTER</th><th>= M = K = J = H = E H16.5 3 H16.5 4 H18.5 3 H18.5 4 6.5 360 6.5 500 8.5 360 6.5</th><th>90 x 37(40 x 34(90 x 37(30 30 30 30 30</th><th>D = B D = C</th></t<>	AMMO AMMO AMMO REEL H1 REEL H1 REEL H1 ROLL H1 ROLL H1 BLISTER BLISTER BLISTER BLISTER BLISTER	= M = K = J = H = E H16.5 3 H16.5 4 H18.5 3 H18.5 4 6.5 360 6.5 500 8.5 360 6.5	90 x 37(40 x 34(90 x 37(30 30 30 30 30	D = B D = C
DC-LIN	JK MKP 5 JK MKP 6 JK HC	5 = DC	CP5 CP6 CHC	500 VAC			oo h i -	, 100	Stand Versid Versid	on Al	e: = 00 = 1A .1 = 1B = 2A			3.5 ±0.5 6 -2 16 ±1	gth (unto = C9 = SD = P1 gth (tap = 00		

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 $\ensuremath{\mathsf{WIMA}}$ range.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Film Capacitors category:

Click to view products by WIMA manufacturer:

Other Similar products are found below :

 F450KG153J250ALH0J
 750-1018
 FKP1-1000160010P15
 FKP1-1500160010P15
 FKP1R031507E00JYSD
 82EC1100DQ50K

 MMWAF150KME
 PFR5101J100J11L16.5TA18
 PME261JB5220KR19T0
 A521HH333M035C
 QXJ2E474KTPT
 QXL2B333KTPT

 QXM2G104K
 DMT2P22
 EEC2G505HQA406
 B32520C6332K000
 B32522C6104K000
 B32523Q3155J
 B32676E6755K

 C3B2AD44400B20K
 217-0716-001
 KP1830-247/061-G
 SCD105K122A3-22
 2N3155
 F601BL225K063CL60A
 FKP1-2202KV5P15
 FKS3

 680040010P10
 445450-1
 B32523Q0475K000
 46KR415050M1K
 4BSNBX4100ZBFJ
 4DCNAQ4450ZA0J
 MKP383510063JKP2T0
 MKT

 1813-368-015
 MKT182022263473
 4055292001
 WMC08P22
 WMF1S15
 WMF4S68
 EEC2E106HQA405
 EEC2G805HQA415

 82DC3100DQ50J
 82DC4100AA60K
 82EC2150DQ50K
 WMF4D68
 WMF1D68
 PHE841ED6150MR17T0
 B25620B118K883

 B25620B158K883
 66MD2100CK7AK
 S
 S
 S
 S
 S
 S
 S
 S
 S
 S
 S
 S
 S
 S
 S
 S
 S
 S
 S
 S
 S
 S
 S