

Metallized Polyphenylene-Sulphide (PPS) SMD Film Capacitors with Box Encapsulation. Capacitances from 0.01 μF to 2.2 μF . 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 PPS and encapsulated
- Operating temperature up to 140°C
- Self-healing
- Suitable for lead-free soldering
- Low dissipation factor
- Low dielectric absorption
- Very constant capacitance value versus temperature
- According to RoHS 2015/863/EU

Typical Applications

For general applications in high temperature circuits e.g.

- By-pass
- Blocking
- Coupling and decoupling
- Timing
- Filtering
- Oscillating circuits

Construction

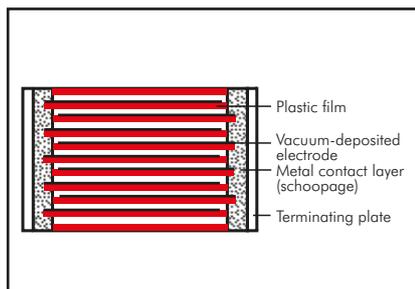
Dielectric:

Polyphenylene-sulphide (PPS) 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 2.2 μF

Rated voltages:

63 VDC, 100 VDC, 250 VDC, 400 VDC, 630 VDC, 1000 VDC

Capacitance tolerances:

$\pm 20\%$, $\pm 10\%$ ($\pm 5\%$ available subject to special enquiry)

Operating temperature range:

-55°C to $+140^\circ\text{C}$

Climatic test category:

55/140/56 in accordance with IEC

Insulation resistance at $+20^\circ\text{C}$:

U_r	U_{test}	$C \leq 0.33 \mu\text{F}$	$0.33 \mu\text{F} < C \leq 2.2 \mu\text{F}$
63 VDC 100 VDC	50 V 100 V	$\geq 1 \times 10^4 \text{ M}\Omega$	$\geq 3000 \text{ sec (M}\Omega \times \mu\text{F)}$
$\geq 250 \text{ VDC}$	100 V	$\geq 3 \times 10^4 \text{ M}\Omega$	$\geq 6000 \text{ sec (M}\Omega \times \mu\text{F)}$

Measuring time: 1 min.

Dissipation factors at $+20^\circ\text{C}$: $\tan \delta$

at f	$C \leq 0.1 \mu\text{F}$	$0.1 \mu\text{F} < C \leq 1.0 \mu\text{F}$	$C > 1.0 \mu\text{F}$
1 kHz	$\leq 15 \times 10^{-4}$	$\leq 20 \times 10^{-4}$	$\leq 20 \times 10^{-4}$
10 kHz	$\leq 25 \times 10^{-4}$	$\leq 25 \times 10^{-4}$	–
100 kHz	$\leq 50 \times 10^{-4}$	–	–

Maximum pulse rise time:

Capacitance μF	max. pulse rise time V/ μsec					
	63 VDC	100 VDC	250 VDC	400 VDC	630 VDC	1000 VDC
0.01 ... 0.022	25	25	30	35	40	45
0.033... 0.068	15	15	20	25	28	32
0.1 ... 0.22	10	10	12	15	–	–
0.33 ... 0.68	5	5	6	8	–	–
1.0 ... 2.2	3	3	–	–	–	–

Dip Solder Test/Processing

Resistance to soldering heat:

Test Tb in accordance with DIN IEC 60068-2-58/DIN EN 60384-20.

Soldering bath temperature max. 260°C .

Soldering duration max. 5 sec.

Change in capacitance $\Delta C/C < 5\%$.

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.

Continuation

General Data

Capacitance	63 VDC/40 VAC*			100 VDC/63 VAC*			250 VDC/160 VAC*		
	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	3.0	SMDIC02100KA00	1812	3.0	SMDID02100KA00	2220	3.5	SMDIF02100QA00
	2220	3.5	SMDIC02100QA00	2220	3.5	SMDID02100QA00			
0.015 "	1812	3.0	SMDIC02150KA00	1812	3.0	SMDID02150KA00	2220	3.5	SMDIF02150QA00
	2220	3.5	SMDIC02150QA00	2220	3.5	SMDID02150QA00			
0.022 "	1812	3.0	SMDIC02220KA00	1812	3.0	SMDID02220KA00	2220	3.5	SMDIF02220QA00
	2220	3.5	SMDIC02220QA00	2220	3.5	SMDID02220QA00	2824	3.0	SMDIF02220TA00
0.033 "	1812	3.0	SMDIC02330KA00	1812	3.0	SMDID02330KA00	2824	3.0	SMDIF02330TA00
	2220	3.5	SMDIC02330QA00	2220	3.5	SMDID02330QA00	4030	5.0	SMDIF02330VA00
	2824	3.0	SMDIC02330TA00	2824	3.0	SMDID02330TA00			
0.047 "	1812	3.0	SMDIC02470KA00	1812	3.0	SMDID02470KA00	2824	5.0	SMDIF02470TB00
	2220	3.5	SMDIC02470QA00	2220	3.5	SMDID02470QA00	4030	5.0	SMDIF02470VA00
	2824	3.0	SMDIC02470TA00	2824	3.0	SMDID02470TA00			
0.068 "	1812	3.0	SMDIC02680KA00	2220	3.5	SMDID02680QA00	2824	5.0	SMDIF02680TB00
	2220	3.5	SMDIC02680QA00	2824	3.0	SMDID02680TA00	4030	5.0	SMDIF02680VA00
	2824	3.0	SMDIC02680TA00						
0.1 µF	1812	3.0	SMDIC03100KA00	2220	3.5	SMDID03100QA00	2824	5.0	SMDIF03100TB00
	2220	3.5	SMDIC03100QA00	2824	3.0	SMDID03100TA00	4030	5.0	SMDIF03100VA00
	2824	3.0	SMDIC03100TA00				5040	6.0	SMDIF03100XA00
0.15 "	1812	4.0	SMDIC03150KB00	2824	3.0	SMDID03150TA00	4030	5.0	SMDIF03150VA00
	2220	3.5	SMDIC03150QA00				5040	6.0	SMDIF03150XA00
	2824	3.0	SMDIC03150TA00				6054	7.0	SMDIF03150YA00
0.22 "	2220	4.5	SMDIC03220QB00	2220	4.5	SMDID03220QB00	4030	5.0	SMDIF03220VA00
	2824	5.0	SMDIC03220TB00	2824	5.0	SMDID03220TB00	5040	6.0	SMDIF03220XA00
							6054	7.0	SMDIF03220YA00
0.33 "	2220	4.5	SMDIC03330QB00	2824	5.0	SMDID03330TB00	5040	6.0	SMDIF03330XA00
	2824	5.0	SMDIC03330TB00	4030	5.0	SMDID03330VA00	6054	7.0	SMDIF03330YA00
	4030	5.0	SMDIC03330VA00						
0.47 "	2220	4.5	SMDIC03470QB00	2824	5.0	SMDID03470TB00	6054	7.0	SMDIF03470YA00
	2824	5.0	SMDIC03470TB00	4030	5.0	SMDID03470VA00			
	4030	5.0	SMDIC03470VA00						
0.68 "	2824	5.0	SMDIC03680TB00	4030	5.0	SMDID03680VA00			
	4030	5.0	SMDIC03680VA00						
1.0 µF	2824	5.0	SMDIC04100TB00	5040	6.0	SMDID04100XA00			
	4030	5.0	SMDIC04100VA00						
	5040	6.0	SMDIC04100XA00						
1.5 "	4030	5.0	SMDIC04150VA00	6054	7.0	SMDID04150YA00			
	5040	6.0	SMDIC04150XA00						
2.2 "	6054	7.0	SMDIC04220YA00	6054	7.0	SMDID04220YA00			

Part number completion:	
Tolerance:	20 % = M
	10 % = K
	5 % = J
Packing:	bulk = S
Pin length:	none = 00
Taped version see page 156.	

* AC voltages: $f \leq 400$ Hz; $1.4 \times U_{rms} + U_{DC} \leq U_r$

Dims. in mm.

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Continuation

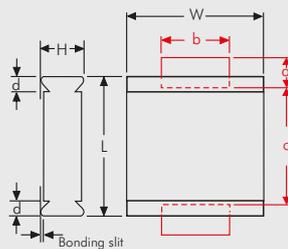
General Data

Capacitance	400 VDC/200 VAC*			630 VDC/300 VAC*			1000 VDC/400 VAC*		
	Size code	H ±0.3	Part number	Size code	H ±0.3	Part number	Size code	H ±0.3	Part number
0.01 µF				5040	6.0	SMDIJ02100XA00_____	5040	6.0	SMDIO12100XA00_____
0.015 "				5040	6.0	SMDIJ02150XA00_____	5040	6.0	SMDIO12150XA00_____
0.022 "	4030 5040	5.0 6.0	SMDIG02220YA00_____ SMDIG02220XA00_____	5040	6.0	SMDIJ02220XA00_____	6054	7.0	SMDIO12220YA00_____
0.033 "	4030 5040	5.0 6.0	SMDIG02330YA00_____ SMDIG02330XA00_____	5040	6.0	SMDIJ02330XA00_____	6054	7.0	SMDIO12330YA00_____
0.047 "	4030 5040	5.0 6.0	SMDIG02470YA00_____ SMDIG02470XA00_____	5040	6.0	SMDIJ02470XA00_____			
0.068 "	4030 5040	5.0 6.0	SMDIG02680YA00_____ SMDIG02680XA00_____	6054	7.0	SMDIJ02680YA00_____			
0.1 µF	4030 5040 6054	5.0 6.0 7.0	SMDIG03100YA00_____ SMDIG03100XA00_____ SMDIG03100YA00_____						
0.15 "	5040 6054	6.0 7.0	SMDIG03150XA00_____ SMDIG03150YA00_____						
0.22 "	6054	7.0	SMDIG03220YA00_____						
0.33 "	6054	7.0	SMDIG03330YA00_____						

* AC voltages: $f \leq 400$ Hz; $1.4 \times U_{rms} + UDC \leq U_r$

Dims. in mm.

Solder pad recommendation



Part number completion:	
Tolerance:	20 % = M
	10 % = K
	5 % = J
Packing:	bulk = S
Pin length:	none = 00
Taped version see page 156.	

Size code	L ±0.3	W ±0.3	d	a min.	b min.	c max.
1812	4.8	3.3	0.5	1.2	3.5	3.5
2220	5.7	5.1	0.5	1.2	4	4.5
2824	7.2	6.1	0.5	1.2	4	6.5
4030	10.2	7.6	0.5	2.5	6	9
5040	12.7	10.2	0.7	2.5	6	11.5
6054	15.3	13.7	0.7	2.5	6	14

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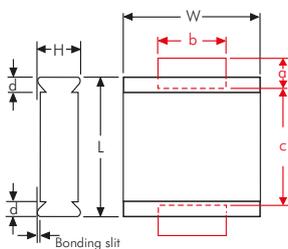
Recommendation for Processing and Application of SMD Capacitors



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



Size code	L ± 0.3	W ± 0.3	d	a min.	b min.	c max.
1812	4.8	3.3	0.5	1.2	3.5	3.5
2220	5.7	5.1	0.5	1.2	4	4.5
2824	7.2	6.1	0.5	1.2	4	6.5
4030	10.2	7.6	0.5	2.5	6	9
5040	12.7	10.2	0.7	2.5	6	11.5
6054	15.3	13.7	0.7	2.5	6	14

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.

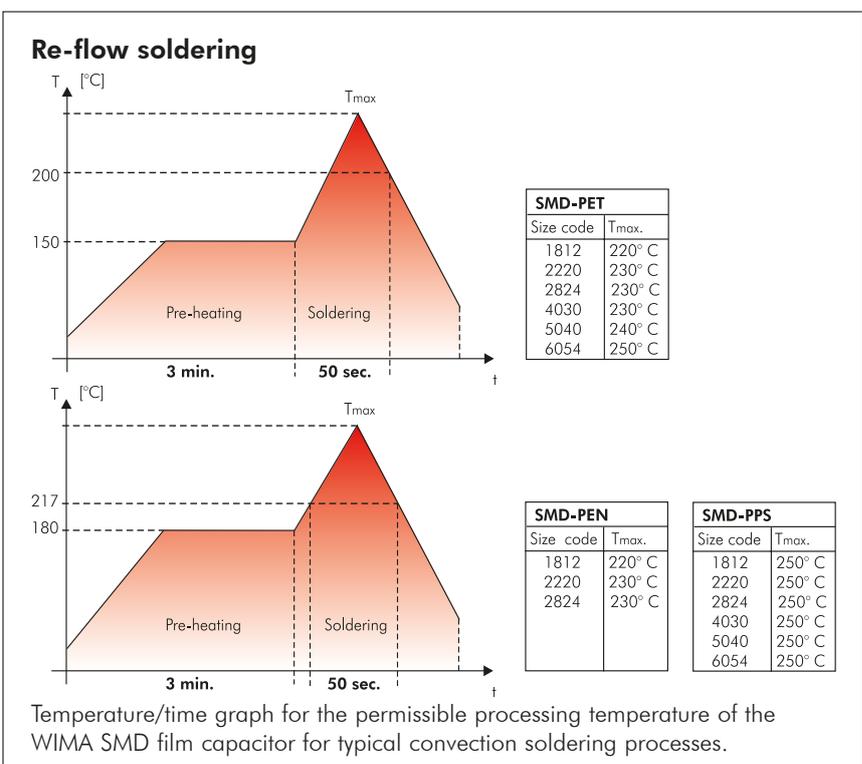
Processing

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.

Soldering Process



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 $T=210^{\circ}\text{C}$ 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	250/482	2 sec plate 1 / 5 sec off / 2 sec plate 2
2220	250/482	3 sec plate 1 / 5 sec off / 3 sec plate 2
2824	260/500	3 sec plate 1 / 5 sec off / 3 sec plate 2
4030	260/500	5 sec plate 1 / 5 sec off / 5 sec plate 2
5040	260/500	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

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

$$|\Delta C/C| \leq 5 \%$$

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

$$t \geq 24 \text{ hours}$$

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

$$t \geq 10 \text{ days}$$

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/water-vapour 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:

$$\lambda_0 \leq 2 \text{ fit}$$

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
- low ESR
- low 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:

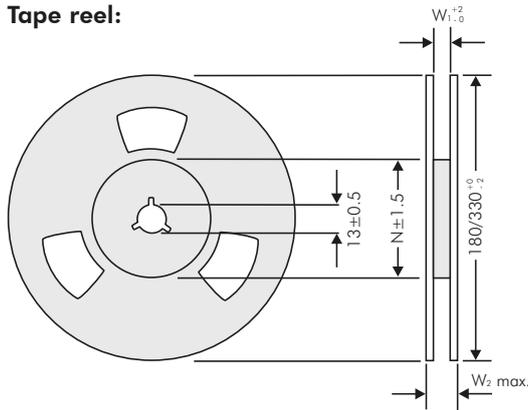
- measuring techniques
- oscillator circuits
- differentiating and integrating circuits
- A/D or D/A transformers
- sample and hold circuits
- automotive electronics

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 1µF/250VDC.

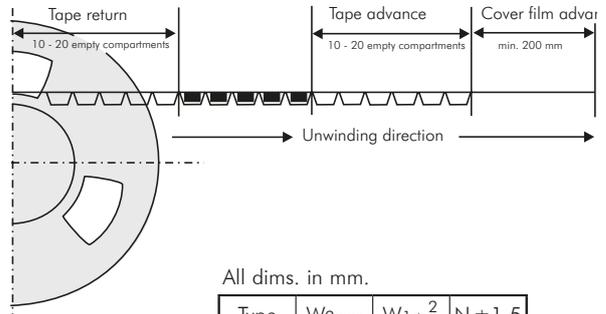


Blister Tape Packaging and Packing Units of the WIMA SMD Capacitors

Tape reel:

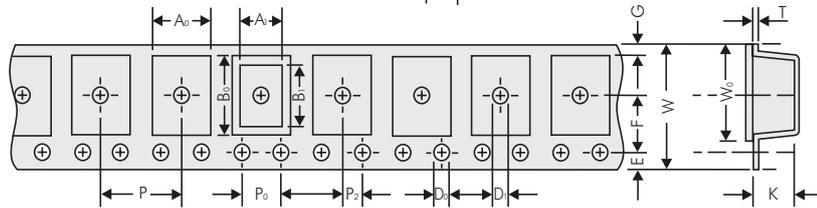


Tape advance and return:



All dims. in mm.

Type	W _{2max}	W ₁ ± 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



Packing units

Size Code 1812		A ₀ ± 0.1	A ₁	B ₀ ± 0.1	B ₁	D ₀ +0.1 -0	D ₁ +0.1 -0	P ± 0.1	P ₀ * ± 0.1	P ₂ ± 0.05	E ± 0.1	F ± 0.05	G	W ± 0.3	W ₀ ± 0.2	K ± 0.1	T ± 0.1
Box size	Code																
4.8x3.3x3	KA	3.55	3.3	5.1	4.8	P1.5	P1.5	8	4	2	1.75	5.5	2.2	12	9.5	3.4	0.3
4.8x3.3x4	KB	3.55	3.3	5.1	4.8	P1.5	P1.5	8	4	2	1.75	5.5	2.2	12	9.5	4.4	0.3

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

Size Code 2220		A ₀ ± 0.1	A ₁	B ₀ ± 0.1	B ₁	D ₀ +0.1 -0	D ₁ +0.1 -0	P ± 0.1	P ₀ * ± 0.1	P ₂ ± 0.05	E ± 0.1	F ± 0.05	G	W ± 0.3	W ₀ ± 0.2	K ± 0.1	T ± 0.1
Box size	Code																
5.7x5.1x3.5	QA	6.3	5.7	5.6	5.1	P1.5	P1.5	8	4	2	1.75	5.5	1.95	12	9.5	3.7	0.3
5.7x5.1x4.5	QB	6.3	5.7	5.6	5.1	P1.5	P1.5	8	4	2	1.75	5.5	1.95	12	9.5	4.7	0.3

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

Size Code 2824		A ₀ ± 0.1	A ₁	B ₀ ± 0.1	B ₁	D ₀ +0.1 -0	D ₁ +0.1 -0	P ± 0.1	P ₀ * ± 0.1	P ₂ ± 0.05	E ± 0.1	F ± 0.05	G	W ± 0.3	W ₀ ± 0.2	K ± 0.1	T ± 0.1
Box size	Code																
7.2x6.1x3	TA	6.6	6.1	7.7	7.2	P1.5	P1.5	12	4	2	1.75	5.5	0.9	12	9.5	3.4	0.3
7.2x6.1x5	TB	6.6	6.1	7.7	7.2	P1.5	P1.5	12	4	2	1.75	5.5	0.9	12	9.5	5.4	0.4

taped Reel	bulk
330 mm Ø	Standard
1500	2000
750	2000

Code	A ₀ ± 0.1	A ₁	B ₀ ± 0.1	B ₁	D ₀ +0.1 -0	D ₁ +0.1 -0	P ± 0.1	P ₀ * ± 0.1	P ₂ ± 0.05	E ± 0.1	F ± 0.05	G	W ± 0.3	W ₀ ± 0.2	K ± 0.1	T ± 0.1	
Size Code 4030	VA	10.7	10.2	8.1	9.1	P1.5	P1.5	16	4	2	1.75	7.5	1.9	16	13.3	5.5	0.3
Size Code 5040	XA	13.5	12.7	11	11.5	P1.5	P1.5	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	P1.5	P1.5	20	4	2	1.75	11.5	2.95	24	21.3	7.5	0.3

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

* cumulative after 10 steps p 0.2 mm max.
Samples and pre-production needs on request or 1 Reel minimum.

Part number codes for SMD packing

W (Blister)	Ø in mm	Code
12	180	P
12	330	Q
16	330	R
24	330	T

Bulk Standard	S
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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
M	K	S	2	C	0	2	1	0	0	1	A	0	0	M	S	S	D
MKS 2				63 VDC		0.01 µF			2.5x6.5x7.2			-		20%	bulk	6 -2	

<p>Type description:</p> <p>SMD-PET = SMDT SMD-PEN = SMDN SMD-PPS = SMDI FKP 02 = FKPO MKS 02 = MKSO FKS 2 = FKS2 FKP 2 = FKP2 FKS 3 = FKS3 FKP 3 = FKP 3 MKS 2 = MKS2 MKP 2 = MKP2 MKS 4 = MKS4 MKP 4 = MKP4 MKP 10 = MKP1 FKP 4 = FKP4 FKP 1 = FKP1 MKP-X2 = MKX2 MKP-X1 R = MKX1 MKP-Y2 = MKY2 MKP 4F = MKPF Snubber MKP = SNMP Snubber FKP = SNFP GTO MKP = GTOM DC-LINK MKP 4 = DCP4 DC-LINK MKP 6 = DCP6 DC-LINK HC = DCHC</p>	<p>Rated voltage:</p> <p>50 VDC = B0 63 VDC = C0 100 VDC = D0 250 VDC = F0 400 VDC = G0 450 VDC = H0 520 VDC = H2 600 VDC = I0 630 VDC = J0 700 VDC = K0 800 VDC = L0 850 VDC = M0 900 VDC = N0 1000 VDC = O1 1100 VDC = P0 1200 VDC = Q0 1250 VDC = R0 1500 VDC = S0 1600 VDC = T0 1700 VDC = TA 2000 VDC = U0 2500 VDC = V0 3000 VDC = W0 4000 VDC = X0 6000 VDC = Y0 230 VAC = 3Y 275 VAC = 1W 300 VAC = 2W 305 VAC = AW 350 VAC = BW 440 VAC = 4W ...</p>	<p>Capacitance:</p> <p>22 pF = 0022 47 pF = 0047 100 pF = 0100 150 pF = 0150 220 pF = 0220 330 pF = 0330 470 pF = 0470 680 pF = 0680 1000 pF = 1100 1500 pF = 1150 2200 pF = 1220 3300 pF = 1330 4700 pF = 1470 6800 pF = 1680 0.01 µF = 2100 0.022 µF = 2220 0.047 µF = 2470 0.1 µF = 3100 0.22 µF = 3220 0.47 µF = 3470 1 µF = 4100 2.2 µF = 4220 4.7 µF = 4470 10 µF = 5100 22 µF = 5220 47 µF = 5470 100 µF = 6100 220 µF = 6220 1000 µF = 7100 1500 µF = 7150 ...</p>	<p>Size:</p> <p>4.8x3.3x3 Size 1812 = KA 4.8x3.3x4 Size 1812 = KB 5.7x5.1x3.5 Size 2220 = QA 5.7x5.1x4.5 Size 2220 = QB 7.2x6.1x3 Size 2824 = TA 7.2x6.1x5 Size 2824 = TB 10.2x7.6x5 Size 4030 = VA 12.7x10.2x6 Size 5040 = YA 15.3x13.7x7 Size 6054 = YA 2.5x7x4.6 PCM2.5 = 0B 3x7.5x4.6 PCM2.5 = 0C 2.5x6.5x7.2 PCM5 = 1A 3x7.5x7.2 PCM5 = 1B 2.5x7x10 PCM7.5 = 2A 3x8.5x10 PCM7.5 = 2B 3x9x13 PCM10 = 3A 4x9x13 PCM10 = 3C 5x11x18 PCM15 = 4B 6x12.5x18 PCM15 = 4C 5x14x26.5 PCM22.5 = 5A 6x15x26.5 PCM22.5 = 5B 9x19x31.5 PCM27.5 = 6A 11x21x31.5 PCM27.5 = 6B 9x19x41.5 PCM37.5 = 7A 11x22x41.5 PCM37.5 = 7B 19x31x56 PCM 48.5 = 8D 25x45x57 PCM 52.5 = 9D ...</p>	<p>Tolerance:</p> <p>±20% = M ±10% = K ±5% = J ±2.5% = H ±1% = E ...</p> <p>Packing:</p> <p>AMMO H16.5 340x340 = A AMMO H16.5 490x370 = B AMMO H18.5 340x340 = C AMMO H18.5 490x370 = D REEL H16.5 360 = F REEL H16.5 500 = H REEL H18.5 360 = I REEL H18.5 500 = J ROLL H16.5 = N ROLL H18.5 = O BLISTER W12 180 = P BLISTER W12 330 = Q BLISTER W16 330 = R BLISTER W24 330 = T Bulk/TPS Standard = S ...</p>
			<p>Version code:</p> <p>Standard = 00 Version A1 = 1A Version A1.1.1 = 1B Version A2 = 2A ...</p>	<p>Pin length (untaped)</p> <p>3.5 ±0.5 = C9 6 -2 = SD 16 ±1 = P1 ...</p> <p>Pin length (taped)</p> <p>none = 00</p>

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.