

Metallized Polyester (PET) SMD Film Capacitors with Box Encapsulation. Capacitances from 0.01 μ F to 1.0 μ F. Rated Voltages from 100 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 125°C
- Self-healing
- Suitable for lead-free soldering
- According to RoHS 2015/863/EU

Typical Applications

For general DC-applications e.g.

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

Construction

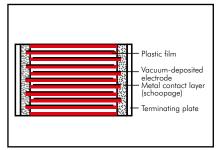
Dielectric:

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:

 $0.01~\mu\text{F}$ to $1.0~\mu\text{F}$

Rated voltages:

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 $+125^{\circ}$ C

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:

Test voltage: 1.6 U_r, 2 sec. Voltage derating:

A voltage derating factor of 1.25 % per K must be applied from +85° C for DC voltages and from +75° C for AC voltages

Reliability:

Operational life > 300 000 hours (+125° C permitted for 1000 hours max. distributed over the entire operating life)

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

U _r	U _{test}	C ≤ 0.33 µF	0.33 µF < C ≤ 1.0 µF
100 VDC	100 V	\geq 3.75 x 10 ³ M Ω	≥ 1250 sec (MΩ x μF)
≥ 250 VDC	100 V	≥ 1 x 10 ⁴ MΩ	≥ 3000 sec (MΩ x μF)

Measuring time: 1 min.

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

at f	C ≤ 0.1 µF	0.1 µF < C ≤ 1.0 µF
1 kHz 10 kHz	≤ 8 x 10 ⁻³ ≤ 15 x 10 ⁻³	≤ 8 x 10 ⁻³ ≤ 15 x 10 ⁻³
100 kHz	≤ 30 x 10 ⁻³	_

Maximum pulse rise time:

Capacitance		max.	pulse rise tim	e V/µsec	
μF	100 VDC	250 VDC	400 VDC	630 VDC	1000 VDC
0.01 0.022 0.033 0.068	20	40 40	35 21	40 25	50 32
0.1 0.22	10	12	14	17	_
0.33 0.68	6	9	10	_	_
1.0	4	7	_	_	_

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 12).

Packing

Available taped and reeled in blister

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

For further details and graphs please refer to Technical Information.



Continuation

General Data

			100 VDC/63 VAC*			250 VDC/160 VAC*
Capacitance	Size code	H ±0.3	Part number	Size code	H ±0.3	Part number
0.01 µ F	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	SMDTD02150KA00 SMDTD02150QA00 SMDTD02150TA00	2220 2824	3.5 3.0	SMDTF02150QA00 SMDTF02150TA00
0.022 "	1812 2220 2824	3.0 3.5 3.0	SMDTD02220KA00 SMDTD02220QA00 SMDTD02220TA00	2220 2824	3.5 3.0	SMDTF02220QA00 SMDTF02220TA00
0.033 "	1812	3.0	SMDTD02330KA00	2220	3.5	SMDTF02330QA00
	2220	3.5	SMDTD02330QA00	2824	3.0	SMDTF02330TA00
	2824	3.0	SMDTD02330TA00	4030	5.0	SMDTF02330VA00
0.047 "	1812	3.0	SMDTD02470KA00	2220	3.5	SMDTF02470QA00
	2220	3.5	SMDTD02470QA00	2824	3.0	SMDTF02470TA00
	2824	3.0	SMDTD02470TA00	4030	5.0	SMDTF02470VA00
0.068 "	1812	4.0	SMDTD02680KB00	2220	4.5	SMDTF02680QB00
	2220	3.5	SMDTD02680QA00	2824	3.0	SMDTF02680TA00
	2824	3.0	SMDTD02680TA00	4030	5.0	SMDTF02680VA00
0.1 µ F	1812	4.0	SMDTD03100KB00	2220	4.5	SMDTF03100QB00
	2220	3.5	SMDTD03100QA00	2824	5.0	SMDTF03100TB00
	2824	3.0	SMDTD03100TA00	4030	5.0	SMDTF03100VA00
0.15 "	2220	4.5	SMDTD03150QB00	2824	5.0	SMDTF03150TB00
	2824	3.0	SMDTD03150TA00	4030	5.0	SMDTF03150VA00
0.22 "	2220	4.5	SMDTD03220QB00	2824	5.0	SMDTF03220TB00
	2824	3.0	SMDTD03220TA00	4030	5.0	SMDTF03220VA00
0.33 "	2220	4.5	SMDTD03330QB00	2824	5.0	SMDTF03330TB00
	2824	5.0	SMDTD03330TB00	4030	5.0	SMDTF03330VA00
	4030	5.0	SMDTD03330VA00	5040	6.0	SMDTF03330XA00
0.47 "	2824	5.0	SMDTD03470TB00	4030	5.0	SMDTF03470VA00
	4030	5.0	SMDTD03470VA00	5040	6.0	SMDTF03470XA00
0.68 "	2824 4030 5040	5.0 5.0 6.0	SMDTD03680TB00 SMDTD03680VA00 SMDTD03680XA00	5040	6.0	SMDTF03680XA00
1.0 µF	4030 5040	5.0 6.0	SMDTD04100VA00 SMDTD04100XA00	6054	7.0	SMDTF04100YA00

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

New box sizes.

Dims. in mm.

Part number completion:

Tolerance: 20 % = M

10 % = K5 % = J

Packing: bulk = S Pin length: none = 00

Taped version see page 150.

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Continuation page 18



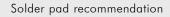
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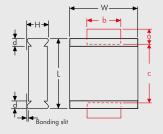
General Data

		de ±0.3 Part number 824 3.0 SMDTG02100TA00			630) VDC/300 VAC*		100	0 VDC/400 VAC*
Capacitance	Size code		Part number	Size code	H ± 0.3	Part number	Size code	H ± 0.3	Part number
0.01 µF	2824 4030	3.0 5.0		4030	5.0	SMDTJ02100VA00			
0.015 "	2824 4030	3.0 5.0		4030	5.0	SMDTJ02150VA00	5040	6.0	SMDTO12150XA00
0.022 "	2824 4030	5.0		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	SMDTJ02470XA00	6054	7.0	SMDTO12470YA00
0.068 "	4030 5040	5.0 6.0	SMDTG02680VA00 SMDTG02680XA00	5040	6.0	SMDTJ02680XA00			
0.1 µF	4030 5040		SMDTG03100VA00 SMDTG03100XA00	6054	7.0	SMDTJ03100YA00			
0.15 "	4030 5040		SMDTG03150VA00 SMDTG03150XA00	6054		SMDTJ03150YA00			
0.22 "	5040		SMDTG03220XA00	6054	7.0	SMDTJ03220YA00			
0.33 "	5040		SMDTG03330XA00						
0.47 "	6054	7.0	SMDTG03470YA00						

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

Dims. in mm.





rari number	completion:
Tolerance:	20 % = M
	10 % = K
	5 % = J
Packing:	bulk = S
Pin length:	none = 00
Taped versio	n see page 150.

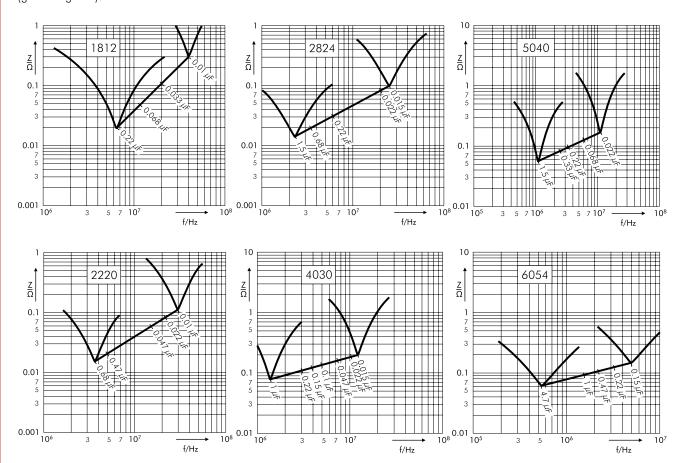
Size code	L ±0.3	W ±0.3	d	a min.	b min.	c max.
1812	4.8	3.3	0.5	1.2	3.5	3.5
2220	5.7	5.1	0.5	1.2	4	4.5
2824	7.2	6.1	0.5	1.2	4	6.5
4030	10.2	7.6	0.5	2.5	6	9
5040	12.7	10.2	0.7	2.5	6	11.5
6054	15.3	13.7	0.7	2.5	6	14

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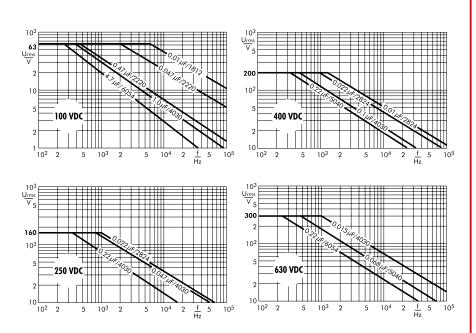


Continuation

Impedance change with frequency (general guide).



Permissible AC voltage in relation to frequency at 10° C internal temperature rise (general guide).



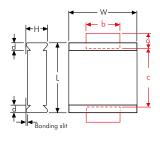
Recommendation for Processing — and Application of SMD Capacitors



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	L	W	d	а	b	С
code	± 0.3	± 0.3		min.	min.	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.

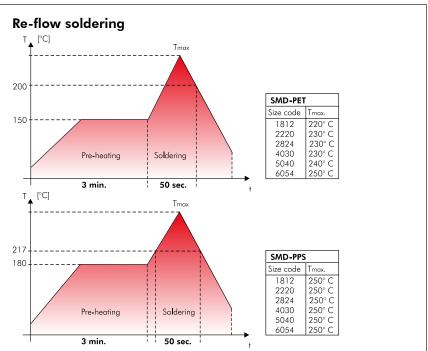
Processing

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



Temperature/time graph for the permissible processing temperature of the WIMA SMD film capacitor for typical convection soldering processes.

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° 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 5040	260/500	5 sec plate 1 / 5 sec off / 5 sec plate 2
	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

 $|\Delta C/C| \le 5 \%$.

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

 $t \ge 24 \text{ hours}$

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 ≥ 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/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:

 $\lambda_0 \leqslant 2$ 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
- low ESR
- low dielectric absorption
- available in high voltage series
- large capacitance spectrum
- stand up to high mechanical stress
- good long-term stability

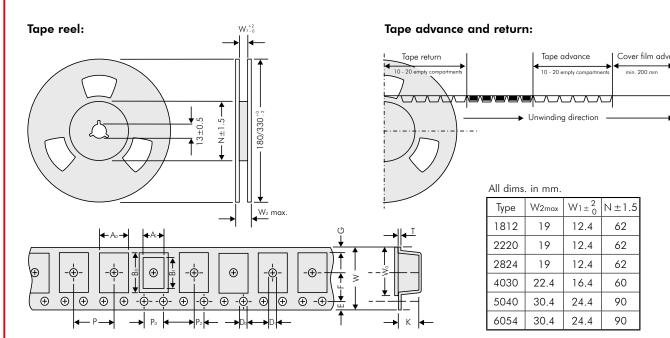
As regards technical performance as well as quality and reliability, the WIMA SMD series offer the possibility to cover nearly all applications of conventionally through-hole film capacitors with SMD components. Furthermore, the WIMA SMD series can now be used for all the demanding capacitor applications 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 $1\,\mu\text{F}/250\text{VDC}.$

Blister Tape Packaging and Packing Units of the WIMA SMD Capacitors





Size Code	1812	Ao ± 0.1	Αı	Bo ± 0.1	В1	D ₀	D ₁	P + 0.1	Po*	P ₂	E +01	F ±0.05	G	W +0.3	W ₀	K +0.1	T ± 0.1
Box size	Code			_ 0.1		-0	-0	_ 0.1	_ 0.1	_ 0.00	_ 0.1	_ 0.00		_ 0.0	_ 0.2	_ 0.1	_ 0.1
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	22	12	9.5	4 4	0.3

Size Code	2220	A ₀ ± 0.1	Αı	Bo ± 0.1	Вı	Do + 0.1	D ₁	P ± 0.1	Po*	P ₂ ±0.05	E +01	F +0.05	G	W +0.3	W ₀ ± 0.2	K	T ± 0.1
Box size	Code			_ 0.1		-0	-0	_ 0.1	_ 0.1	_ 0.00	_ 0.1	_ 0.00		_ 0.0	_ 0.2	_ 0.1	_ 0.1
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

Size Code	2824	A ₀ ± 0.1	Αı	Bo ± 0.1	Вı	D ₀ + 0.1	D ₁	P + 0.1	Po*	P ₂	E +01	F ± 0.05	G	W ± 0.3	W ₀	K +0.1	T +0.1
Box size	Code			_ 0.1		-0	-0	_ 0.1	_ 0.1	_0.00	_ 0.1	_ 0.00		_ 0.0	_ 0.2	_ 0.1	_ 0.1
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	ТВ	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

	Code	A0 ± 0.1		Bo ± 0.1	В1	D0 + 0.1 -0	D1 + 0.1 -0			P ₂ ±0.05				W ± 0.3			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

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

Packing units

taped Reel	taped Reel	bulk
	330 mm Ø	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 330 mm Ø	bulk Standard
1500	2000
750	2000

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

Part number codes for SMD packing

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

Bulk Standard	S

- 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
M	К	S	2	С	0	2	1	0	0	1	Α	0	0	M	S	S	D
	MK	S 2		63 \	/DC		0.01	lμF		2.5×6.	.5x7.2	-	-	20%	bulk	6	-2

- 1						<u> </u>		
	Type description	1:	Rated voltage:	Capacitance:	Size:		Tolerance:	
	SMD-PET	= SMDT	50 VDC = B0	22 pF = 0022	4.8x3.3x3 Size 1812 =	= KA 📗	±20% = M	
	SMD-PPS	= SMDI	63 VDC = C0	47 pF = 0047	4.8x3.3x4 Size 1812 =	= KB	$\pm 10\% = K$	
	FKP 02	= FKP0	100 VDC = D0	100 pF = 0100	5.7x5.1x3.5 Size2220 =	= QA	±5% = J	
	MKS 02	= MKS0	250 VDC = F0	150 pF = 0150	5.7x5.1x4.5 Size2220 =	= QB	±2.5% = H	
	FKS 2	= FKS2	400 VDC = G0	220 pF = 0220	7.2x6.1x3 Size 2824 =	= TA	$\pm 1\% = E$	
	FKP 2	= FKP2	450 VDC = H0	330 pF = 0330	7.2x6.1x5 Size 2824 =	= TB	l l	
	FKS 3	= FKS3	520 VDC = H2	470 pF = 0470		= VA		
	FKP 3	= FKP 3	600 VDC = 10	680 pF = 0680		= XA		
	MKS 2	= MKS2	630 VDC = J0	1000 pF = 1100		= YA	Packing:	
	MKP 2	= MKP2	700 VDC = K0	1500 pF = 1150		= OB	AMMO H16.5 340x340	= A
	MKS 4	= MKS4	800 VDC = L0	2200 pF = 1220		= 0C	AMMO H16.5 490x370	= B
	MKP 4	= MKP4	850 VDC = M0	3300 pF = 1330	i e	= 1A	AMMO H18.5 340x340	= C
	MKP 10	= MKP1	900 VDC = N0	4700 pF = 1470	3x7.5x7.2 PCM5 =	= 1B	AMMO H18.5 490x370	= D
	FKP 4	= FKP4	1000 VDC = O1	6800 pF = 1680	$2.5 \times 7 \times 10 \text{ PCM} 7.5 =$	= 2A	REEL H16.5 360	= F
	FKP 1	= FKP1	1100 VDC = P0	$0.01 \mu F = 2100$		= 2B	REEL H16.5 500	= H
	MKP-X2	= MKX2	1200 VDC = Q0	$0.022 \mu F = 2220$	3x9x13 PCM10 =	= 3A	REEL H18.5 360	=
	MKP-X1 R	= MKX1	1250 VDC = R0	$0.047 \mu F = 2470$		= 3C	REEL H18.5 500	= J
	MKP-Y2	= MKY2	1500 VDC = S0	$0.1 \mu F = 3100$	5x11x18 PCM15 =	= 4B	ROLL H16.5	= N
	MKP 4F	= MKPF	1600 VDC = T0	$0.22 \mu F = 3220$	6x12.5x18 PCM15 =	= 4C	ROLL H18.5	= O
	Snubber MKP	= SNMP	1700 VDC = TA	$0.47 \mu F = 3470$	5x14x26.5 PCM22.5 =	= 5A	BLISTER W12 180	= P
	Snubber FKP	= SNFP	2000 VDC = U0	$1 \mu F = 4100$	6x15x26.5 PCM22.5 =	= 5B	BLISTER W12 330	= Q
	GTO MKP	= GTOM	2500 VDC = V0	$2.2 \mu F = 4220$	9x19x31.5 PCM27.5 =	= 6A	BLISTER W16 330	= R
	DC-LINK MKP 4	= DCP4	3000 VDC = W0	$4.7 \mu F = 4470$	11x21x31.5 PCM27.5 =	= 6B	BLISTER W24 330	= T
	DC-LINK MKP 6	= DCP6	4000 VDC = X0	$10 \mu F = 5100$	9x19x41.5 PCM37.5 =	= 7A	Bulk/TPS Standard	= S
	DC-LINK HC	= DCHC	6000 VDC = Y0	$22 \mu F = 5220$	11x22x41.5 PCM37.5 =	= 7B 📗		
			230 VAC = 3Y	$47 \mu F = 5470$	19x31x56 PCM 48.5 =	= 8D		
			275 VAC = 1 W	$100 \mu F = 6100$	$25 \times 45 \times 57 \text{ PCM } 52.5 =$	= 9D		
			300 VAC = 2W	$220 \mu F = 6220$				
			305 VAC = AW	$1000 \mu F = 7100$				
			350 VAC = BW	$1500 \mu F = 7150$				
			440 VAC = 4W		Version code:		Pin length (untaped)	
					Standard = 00		$3.5 \pm 0.5 = C9$	
					Version A1 = 1A		6 - 2 = SD	
					Version A1.1.1 = 1B		$16 \pm 1 = P1$	
					1 Varsian A2 = 2A			

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.

Version A1.1.1 = 1BVersion A2

Pin length (taped)