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Dielectric

Temperature ranges

Capacitance tolerances

Dissipation factor tan δ at 1 kHz and +20°C

Insulation resistance at +20°C*

Voltage ranges

- 27 pF
- 68 pF
- 100 pF
- 680 pF
- 1000 pF
- 1500 pF
- 2200 pF
- 3300 pF
- 4700 pF
- 6800 pF
- 0.01 µF
- 0.015 µF
- 0.022 µF
- 0.033 µF
- 0.047 µF
- 0.068 µF
- 0.1 µF
- 0.15 µF
- 0.22 µF
- 0.33 µF
- 0.47 µF
- 0.68 µF
- 1.0 µF
- 1.5 µF
- 2.2 µF
- 3.3 µF
- 4.7 µF
- 6.8 µF
- 10 µF
- 15 µF
- 22 µF
- 33 µF
- 47 µF
- 68 µF
- 100 µF
- 150 µF
- 220 µF
- 330 µF
- 470 µF
- 680 µF

* Die Isolationswert-Angaben beziehen sich auf die jeweils niedrigste Nennspannung der Artikelreihen. Nähere Angaben für höhere Nennspannungen siehe Hauptkatalog.
 * The insulation resistance data refers to the lowest rated voltage of each range. Further details concerning higher rated voltages see general catalogue.

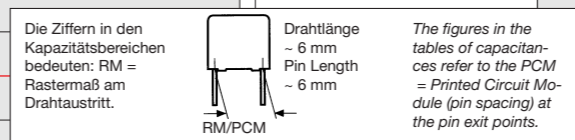
SMD		
metallisiert / metallized		
SMD-PET	SMD-PEN	SMD-PPS
Polyester film	Polyethylen-naphthalate film	Polyphenylsulfid film
-55°C to 125°C	-55°C to 125°C	-55°C to 140°C
±20% ±10% (±5%)	±20% ±10% (±5%)	±20% ±10% (±5%)
≤8 x 10 ⁻³ >1 µF : ≤10 x 10 ⁻³	≤8 x 10 ⁻³	≤15 x 10 ⁻⁴ >0.1 µF : ≤20 x 10 ⁻⁴
≥3.75 x 10 ³ MΩ >0.33 µF : ≥1250 s	≥3.75 x 10 ³ MΩ >0.33 µF : ≥1250 s	≥1 x 10 ⁴ MΩ >0.33 µF : ≥3000 s
630DC, 100DC, 250DC, 400DC, 630DC, 1000DC	630DC, 100DC, 250DC, 400DC	630DC, 100DC, 250DC, 400DC, 630DC, 1000DC
1812, 2220, 2824, 4030, 5040, 6054	1812, 2220, 2824	1812, 2220, 2824, 4030, 5040, 6054

Rastermaß / PCM 2.5 mm	
Film/Folie / film/foil	metallisiert / metallized
FKP 02	MKS 02
Polypropylene film	Polyester film
-55°C to 105°C	-55°C to 105°C
±20% ±10% ±5% ±2.5%	±20% ±10% (±5%)
≤5 x 10 ⁻⁴	≤8 x 10 ⁻³
≥3 x 10 ⁵ MΩ	≥3.75 x 10 ³ MΩ >0.33 µF : ≥1250 s
630DC, 100DC, 250DC, 400DC	630DC, 100DC, 250DC, 400DC
2.5, 2.5, 2.5, 2.5	2.5, 2.5, 2.5, 2.5

* Eingegängte Toleranzen auf Anfrage.
 * Closer tolerances are available subject to special enquiry.

Rastermaß / PCM 5 - 52.5 mm			
Film/Folie / film/foil			
FKS 2	FKP 2	FKS 3	FKP 3
Polyester film	Polypropylene film	Polyester film	Polypropylene film
-55°C to 105°C	-55°C to 105°C	-55°C to 105°C	-55°C to 105°C
±20% ±10% ±5%	±20% ±10% ±5% ±2.5% (±2% ±1.5% ±1%)	±20% ±10% ±5%	±20% ±10% ±5%
≤7 x 10 ⁻³	≤5 x 10 ⁻⁴	≤7 x 10 ⁻³	≤5 x 10 ⁻⁴
≥1 x 10 ⁵ MΩ	≥3 x 10 ⁵ MΩ	≥1 x 10 ⁵ MΩ	≥3 x 10 ⁵ MΩ
630DC, 100DC, 250DC, 400DC, 630DC, 1000DC	630DC, 100DC, 250DC, 400DC, 630DC, 800DC, 1000DC	630DC, 100DC, 250DC, 400DC, 630DC, 1000DC	630DC, 100DC, 250DC, 400DC, 630DC, 800DC, 1000DC
5, 5, 5, 5, 5, 5	5, 5, 5, 5, 5, 5, 5, 5	7.5, 7.5, 10, 10, 15, 15	7.5, 7.5, 7.5, 7.5, 7.5, 7.5, 10, 10, 15, 15

Rastermaß / PCM 5 - 52.5 mm			
metallisiert / metallized			
MKS 2	MKP 2	MKS 4	MKP 4
Polyester film	Polypropylene film	Polyester film	Polypropylene film
Ur = 50 VDC; -55°C to 105°C Ur ≥ 63 VDC; -55°C to 125°C	-55°C to 100°C	Ur = 50 VDC; -55°C to 105°C Ur ≥ 63 VDC; -55°C to 125°C	-55°C to 105°C
±20% ±10% ±5%	±20% ±10% ±5%	±20% ±10% ±5%	±20% ±10% ±5%
≤8 x 10 ⁻³ >1 µF : ≤10 x 10 ⁻³	≤5 x 10 ⁻⁴	≤8 x 10 ⁻³ >1 µF : ≤10 x 10 ⁻³	≤6 x 10 ⁻⁴
≥5 x 10 ³ MΩ >0.33 µF : ≥1000 s	≥1 x 10 ⁵ MΩ	≥5 x 10 ³ MΩ >0.33 µF : ≥1500 s	≥1 x 10 ⁵ MΩ >0.33 µF : ≥30000 s
500DC, 630DC, 100DC, 250DC, 400DC, 630DC, 1000DC	630DC, 100DC, 250DC, 400DC, 630DC, 800DC, 1000DC	500DC, 630DC, 100DC, 250DC, 400DC, 630DC, 1000DC	100DC, 250DC, 400DC, 630DC, 1000DC, 1500DC, 2000DC, 2500DC, 3000DC, 3750DC, 4500DC, 5250DC
5, 5, 5, 5, 5, 5	5, 5, 5, 5, 5, 5	7.5, 7.5, 7.5, 7.5, 7.5, 7.5, 10, 10, 15, 15, 22.5, 27.5, 37.5, 52.5	7.5, 7.5, 7.5, 7.5, 7.5, 7.5, 10, 10, 15, 15, 22.5, 27.5, 37.5, 52.5



Für hohe Strombelastungen / For high current ratings		
mit doppelseitig metallisierten Belagfolien / with double-metallized film electrodes		
MKP 10	FKP 4	FKP 1
Polypropylene film	Polypropylene film	Polypropylene film
-55°C to 105°C	-55°C to 105°C	-55°C to 105°C
±20% ±10% ±5%	±20% ±10% ±5%	±20% ±10% ±5% (other tolerances)
≤6 x 10 ⁻⁴	≤5 x 10 ⁻⁴	≤5 x 10 ⁻⁴
≥1 x 10 ⁵ MΩ >0.33 µF : ≥30000 s	≥1 x 10 ⁵ MΩ >0.1 µF : ≥10000 s	≥1 x 10 ⁵ MΩ >0.1 µF : ≥30000 s
100DC, 250DC, 400DC, 630DC, 800DC, 1000DC, 1200DC, 1500DC, 2000DC, 2500DC, 3000DC, 4000DC, 6000DC	400DC, 650DC, 1000DC, 1200DC, 1600DC, 2000DC	400DC, 600DC, 1000DC, 1200DC, 1600DC, 2000DC, 4000DC, 6000DC
7.5, 7.5, 7.5, 10, 10, 15, 15, 22.5, 27.5, 37.5, 52.5	15, 15, 15, 22.5, 27.5, 37.5, 52.5	15, 15, 22.5, 27.5, 37.5, 52.5, 75, 100, 150, 225, 300, 375, 525

Funk-Entstörkondensatoren / RFI capacitors		
nach IEC / in accordance with IEC 60384-14		
MKP-X2	MKP-Y2	MKP-X1 R
Polypropylene film	Polypropylene film	Polypropylene film
-55°C to 105°C	-55°C to 105°C	-55°C to 105°C
±20% ±10% ±5%	±20% ±10% ±5%	±20% ±10% ±5%
≤18 x 10 ⁻⁴ >0.1:≤20x10 ⁻⁴	≤18 x 10 ⁻⁴ >0.1:≤20x10 ⁻⁴	≤18 x 10 ⁻⁴ >0.1:≤20x10 ⁻⁴ >1.5:≤30x10 ⁻⁴
≥1.5 x 10 ⁴ MΩ >0.33:≥5000 s	≥1.5 x 10 ⁴ MΩ >0.33:≥5000 s	≥1.5 x 10 ⁴ MΩ >0.33:≥5000 s
305 MΩ, 300 MΩ, 440 MΩ	300 MΩ, 440 MΩ	440 MΩ
7.5, 10, 15, 22.5, 37.5	10, 15, 22.5, 37.5	10, 15, 22.5, 37.5

Filterkondensatoren / Filter capacitors
metallisiert / metallized
MKP 4F
Polypropylene film
-55°C to 105°C
±20% ±10% ±5%
PCM 27.5:≤5 x 10 ⁻⁴ PCM 37.5:≤15 x 10 ⁻⁴ PCM 52.5:≤15 x 10 ⁻⁴
≥30000 s
230 MΩ, 275 MΩ, 305 MΩ, 350 MΩ, 440 MΩ
27.5, 37.5, 52.5, 75, 100, 150, 225, 300, 375, 525

Snubber Kondensatoren / Snubber capacitors	
mit doppelseitig metallisierten Belagfolien / with double-metallized film electrodes	
Snubber MKP	Snubber FKP
Polypropylene film	Polypropylene film
-55°C to 105°C	-55°C to 105°C
±20% ±10% ±5% (other tolerances)	±20% ±10% ±5% (other tolerances)
≤6 x 10 ⁻⁴	≤5 x 10 ⁻⁴
≥1 x 10 ⁵ MΩ >0.33 µF : ≥30000 s	≥1 x 10 ⁵ MΩ >0.33 µF : ≥30000 s
700DC, 850DC, 1000DC, 1200DC, 1500DC, 2000DC, 2500DC, 3000DC, 4000DC, 6000DC	1000DC, 1200DC, 1600DC, 2000DC, 3000DC, 4000DC
7.5, 10, 15, 22.5, 37.5, 52.5	10, 15, 22.5, 37.5, 52.5

GTO Kondensatoren / GTO capacitors
metallisiert mit innerer Reihenschaltung / metallized, internally series-connected
GTO MKP
Polypropylene film
-55°C to 85°C
±20% ±10% ±5%
≤3 x 10 ⁻⁴ >20: ≤5 x 10 ⁻⁴ / >50: ≤8 x 10 ⁻⁴
≥10000 s
400DC, 600DC, 850DC, 1000DC, 1200DC, 1500DC, 3000DC
7.5, 10, 15, 22.5, 37.5, 52.5

DC-LINK Kondensatoren / DC-LINK capacitors
metallisiert / metallized
DC-LINK MKP 4
Polypropylene film
-55°C to 105°C (hot spot)
±20% ±10% ±5%
Siehe Hauptkatalog See main catalogue
≥30000 s
400DC, 500DC, 600DC, 800DC, 900DC, 1100DC, 1300DC, 1500DC
27.5, 37.5, 52.5, 75, 100, 150, 225, 300, 375, 525

* Die Isolationswert-Angaben beziehen sich auf die jeweils niedrigste Nennspannung der Artikelreihen. Nähere Angaben für höhere Nennspannungen siehe Hauptkatalog.
 * The insulation resistance data refers to the lowest rated voltage of each range. Further details concerning higher rated voltages see general catalogue.

* Eingegängte Toleranzen auf Anfrage.
 * Closer tolerances are available subject to special enquiry.

* Verfügbar in verschiedenen Anschlusskonfigurationen. Nähere Angaben siehe Hauptkatalog.
 * Available in various contact configurations. Further details see general catalogue.