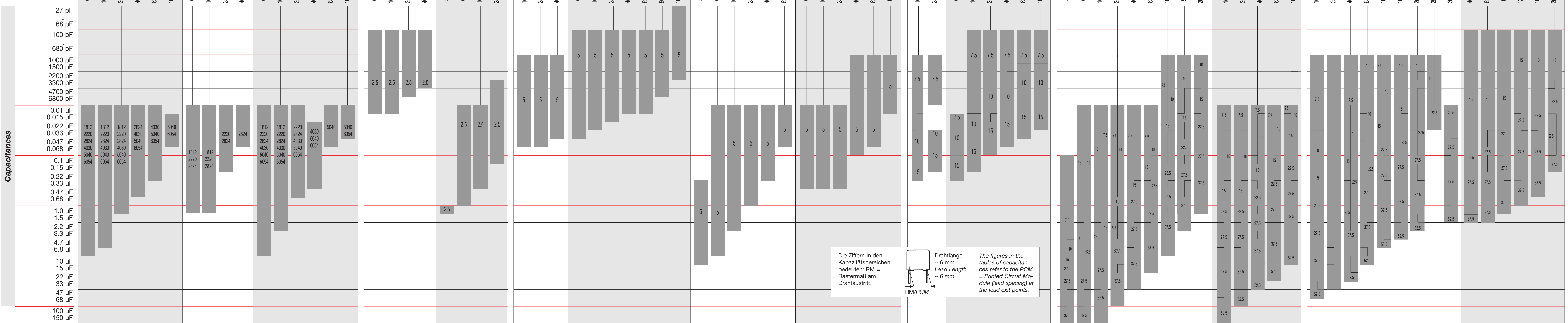
WIMA GMBH & CO. KG
Besselstr. 2-4
D-68219 Mannheim
Tel. +49-621-86295-0
Fax +49-621-86295-95
E-mail: sales@wima.de

SMD · Rastermaß / *PCM* 2.5 mm · Rastermaß / *PCM* 5 mm · Rastermaß / *PCM* 7.5 – 15 mm · Für erhöhte Anforderungen / *For stringent requirements* · Für hohe Strombelastungen / *For high current ratings*



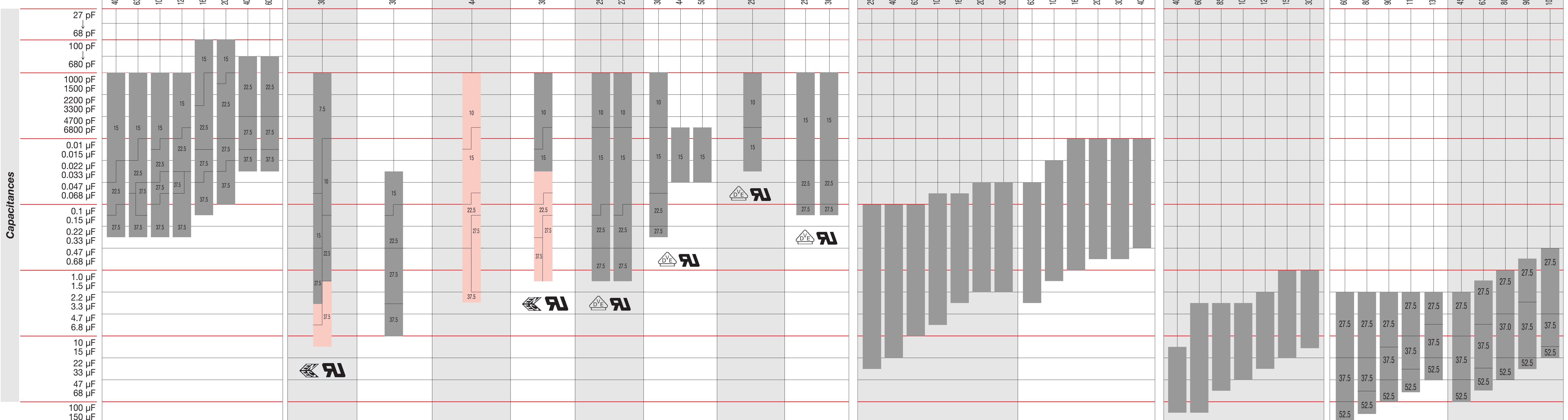
	SMD – metallisiert / *metallized*			Rastermaß / *PCM* 2.5 mm – Film/Folie / *film/foil*	Rastermaß / *PCM* 2.5 mm – metallisiert / *metallized*	Rastermaß / *PCM* 5 mm – Film/Folie / *film/foil*		Rastermaß / *PCM* 5 mm – metallisiert / *metallized*		Rastermaß / *PCM* 7.5 – 15 mm – Film/Folie / *film/foil*		Für erhöhte Anforderungen / *For stringent requirements* – metallisiert / *metallized*		Für hohe Strombelastungen – mit doppelseitig metallisierten Belagfolien / *with double-metallized film electrodes*	Für hohe Strombelastungen – mit Metallfolienbelägen, metallisiert / *with metal foil electrode, metallized*
	SMD-PET	**SMD-PEN**	**SMD-PPS**	**FKP 02**	**MKS 02**	**FKS 2**	**FKP 2**	**MKS 2**	**MKP 2**	**FKS 3**	**FKP 3**	**MKS 4**	**MKP 4**	**MKP 10**	**FKP 4**
Dielectric	Polyester film	Polyethylene-naphthalate film	Polyphenylene-sulphide film	Polypropylene film	Polyester film	Polyester film	Polypropylene film	Polyester film	Polypropylene film	Polyester film	Polypropylene film	Polyester film	Polypropylene film	Polypropylene film	Polypropylene film
Test category in accordance with IEC	55/100/21	55/125/21	55/140/56	55/100/21	55/100/21	55/100/56	55/100/56	55/100/21	55/085/56	55/100/56	55/100/56	55/100/56	55/100/56	55/100/56	55/100/56
Temperature ranges	-55°C to 100°C	-55°C to 125°C	-55°C to 140°C	-55°C to 100°C	-55°C to 100°C	-55°C to 100°C	-55°C to 100°C	Ur = 50 VDC: -55°C to 100°C Ur ≥ 63 VDC: -55°C to 125°C	-55°C to 100°C	-55°C to 100°C		Ur = 50 VDC: -55°C to 100°C Ur ≥ 63 VDC: -55°C to 125°C	-55°C to 100°C	-55°C to 100°C	-55°C to 100°C
Dissipation factor tan δ at 1 kHz and +20°C	≤8 x 10^{-3} >1 µF : ≤10 x 10^{-3}	≤8 x 10^{-3}	≤15 x 10^{-4} >0.1 µF : ≤20x 10^{-4}	≤4 x 10^{-4}	≤8 x 10^{-3}	≤7 x 10^{-3}	≤3 x 10^{-4} >1000 pF : ≤4 x 10^{-4}	≤8 x 10^{-3} >1 µF : ≤10 x 10^{-3}	≤0.5 x 10^{-3}	≤8 x 10^{-3}	≤4 x 10^{-4} >0.1 µF : ≤3 x 10^{-4}	≤8 x 10^{-3} >1 µF : ≤10 x 10^{-3}	≤10 x 10^{-4} >50 µF : ≤15 x 10^{-4}	≤3 x 10^{-4}	≤3 x 10^{-4}
Insulation resistance at +20°C*	≥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	≥5 x 10^5 MΩ	≥3.75 x 10^3 MΩ >0.33 µF : ≥1250 s	≥3 x 10^4 MΩ	≥5 x 10^5 MΩ	≥5 x 10^3 MΩ >0.33 µF : ≥1000 s	≥3 x 10^4 MΩ	≥3 x 10^4 MΩ	≥5 x 10^5 MΩ	≥5 x 10^3 MΩ >0.33 µF : ≥1500 s	≥1 x 10^5 MΩ >0.33 µF : ≥30000s	≥1 x 10^5 MΩ >0.33 µF : ≥30000 s	≥1 x 10^5 MΩ >0.1µF : ≥10000 s
Voltage ranges	63 VDC, 100 VDC, 250 VDC, 400 VDC, 630 VDC, 1000 VDC	63 VDC, 100 VDC, 250 VDC, 400 VDC	63 VDC, 100 VDC, 250 VDC, 400 VDC, 630 VDC, 1000 VDC	63 VDC, 100 VDC, 250 VDC, 400 VDC	50 VDC, 63 VDC, 100 VDC, 250 VDC	100 VDC, 250 VDC, 400 VDC	63 VDC, 100 VDC, 250 VDC, 400 VDC, 630 VDC, 800 VDC, 1000 VDC	50 VDC, 63 VDC, 100 VDC, 250 VDC, 400 VDC, 630 VDC	63 VDC, 100 VDC, 250 VDC, 400 VDC, 630 VDC, 1000 VDC	100 VDC, 250 VDC	63 VDC, 100 VDC, 250 VDC, 400 VDC, 630 VDC, 1000 VDC	50 VDC, 63 VDC, 100 VDC, 250 VDC, 400 VDC, 630 VDC, 1000 VDC, 1500 VDC, 2000 VDC	100 VDC, 250 VDC, 400 VDC, 630 VDC, 1000 VDC	100 VDC, 250 VDC, 400 VDC, 630 VDC, 1000 VDC, 1600 VDC, 2000 VDC, 2500 VDC, 3000 VDC	400 VDC, 630 VDC, 1000 VDC, 1250 VDC, 1600 VDC, 2000 VDC
Capacitance tolerances	±20% ±10% (±5%*)	±20% ±10% (±5%*)	±20% ±10% (±5%*)	±10% ±5% ±2.5%	±20% ±10% (±5%*)	±20% ±10% ±5%	±10% ±5% ±2.5% (±2% ±1.5% ±1%*)	±20% ±10% ±5%	±20% ±10% ±5%	±20% ±10% ±5%	±20% ±10% ±5%	±20% ±10% ±5%	±20% ±10% ±5%	±20% ±10% ±5%	±20% ±10% ±5% (other tolerances*)

Die Ziffern in den Kapazitätsbereichen bedeuten: RM = Rastermaß am Drahtaustritt. Drahtlänge ~ 6 mm / *Lead Length ~ 6 mm*. RM/PCM. *The figures in the tables of capacitances refer to the PCM = Printed Circuit Module (lead spacing) at the lead exit points.*

* 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.*

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

Für hohe Strombelastungen / *For high current ratings* · Funk-Entstörkondensatoren / *RFI capacitors* · Snubber Kondensatoren / *Snubber capacitors* · GTO Kondensatoren / *GTO capacitors* · DC-LINK Kondensatoren / *DC-LINK capacitors*



	Für hohe Strombelastungen – mit Metallfolienbelägen u. innerer Reihenschaltung / *with metal foil electrodes, internally series-connected*	Funk-Entstörkondensatoren – nach IEC / *in accodance with IEC 60384-14*								Snubber – mit doppelseitig metallisierten Belagfolien / *with double-metallized film electrodes*	Snubber – mit Metallfolienbelägen u. innerer Reihenschaltung / *with metal foil electrodes, internally series-connected*	GTO – metallisiert mit innerer Reihenschaltung / *metallized, internally series-connected*	DC-LINK – metallisiert / *metallized*	DC-LINK – metallisiert / *metallized*
	FKP 1	**MKP-X2**	**MKP-X2 R**	**MKP-X1 R**	**MKP-Y2**	**MP 3-X2**	**MP 3-X1**	**MP 3-Y2**	**MP3R-Y2**	**Snubber MKP**	**Snubber FKP**	**GTO MKP**	**DC-LINK MKP 4**	**DC-LINK MKP 4S**
Dielectric	Polypropylene film	Polypropylene film	Polypropylene film	Polypropylene film	Polypropylene film	Imprägniertes Kondensatorpapier / *Paper, resin impregnated*				Polypropylene film	Polypropylene film	Polypropylene film	Polypropylene film	Polypropylene film
Test category in accordance with IEC	55/100/56	55/105/56	55/105/56	-55/105/56	55/105/56	40/110/56/C	40/110/56/C	40/110/56/C	40/110/56/C	55/100/56	55/100/56	55/085/56	55/085/56	55/085/56
Temperature ranges	-55°C to 100°C	-55°C to 105°C	-55°C to 105°C	55°C to 105°C	-55°C to 105°C	-40°C to 110°C	-40°C to 110°C	-40°C to 110°C	-40°C to 110°C	-55°C to 100°C	-55°C to 100°C	-55°C to 85°C	-55°C to 105°C (hot spot)	-55°C to 105°C (hot spot)
Dissipation factor tan δ at 1 kHz and +20°C	≤3 x 10^{-4}	≤15 x 10^{-4} >0.1:≤20x10^{-4} >1:≤30x10^{-4}	≤4 x 10^{-4} ≥1:≤5x10^{-4} >1:≤10x10^{-4}	≤15 x 10^{-4} >0.1:≤20x10^{-4} >1:≤30x10^{-4}	≤15 x 10^{-4} >0.1:≤20x10^{-4} >1:≤30x10^{-4}	≤13 x 10^{-3}	≤13 x 10^{-3}	≤13 x 10^{-3}	≤13 x 10^{-3}	≤3 x 10^{-4}	≤3 x 10^{-4}	≤3 x 10^{-4} >20: ≤5 x 10^{-4} / >50: ≤8 x 10^{-4}	≤10 x 10^{-4} >50 µF: ≤15 x 10^{-4}	≤10 x 10^{-4} >50 µF: ≤15 x 10^{-4}
Insulation resistance at +20°C*	≥1 x 10^5 MΩ >0.1 µF : ≥30000 s	≥15 x 10^3 MΩ >0.33 : ≥5000 s	≥15 x 10^3 MΩ >0.33 : ≥5000 s	≥15 x 10^3 MΩ >0.33 : ≥5000 s	≥15 x 10^3 MΩ >0.33 : ≥5000 s	≥12 x 10^3 MΩ >0.33 : ≥4000 s	≥12 x 10^3 MΩ	≥12 x 10^3 MΩ	≥12 x 10^3 MΩ	≥1 x 10^5 MΩ >0.33 µF : ≥30000 s	≥1 x 10^5 MΩ >0.33 µF: ≥30000 s	≥10000 s	≥30000 s	≥30000 s
Voltage ranges	400 VDC, 630 VDC, 1000 VDC, 1250 VDC, 1600 VDC, 2000 VDC, 4000 VDC, 6000 VDC	305 VAC	305 VAC	440 VAC	300 VAC	250 VAC, 275 VAC	300 VAC, 440 VAC, 500 VAC	250 VAC	250 VAC, 300 VAC	250 VDC, 400 VDC, 630 VDC, 1000 VDC, 1600 VDC, 2000 VDC, 3000 VDC	630 VDC, 1000 VDC, 1600 VDC, 2000 VDC, 3000 VDC, 4000 VDC	400 VDC, 600 VDC, 850 VDC, 1000 VDC, 1200 VDC, 1500 VDC, 3000 VDC	600 VDC, 800 VDC, 900 VDC, 1100 VDC, 1300 VDC	450 VDC, 630 VDC, 800 VDC, 900 VDC, 1050 VDC
Capacitance tolerances	±20% ±10% ±5% (other tolerances*)	±20% ±10% (±5%*)	±20% ±10% (±5%*)	±20% ±10% (±5%*)	±20% ±10% (±5%*)	±20%	±20%	±20%	±20%	±20% ±10% ±5% (other tolerances*)	±20% ±10% ±5% (other tolerances*)	±20% ±10% ±5%	±20% ±10% ±5%	±20% ±10% ±5%

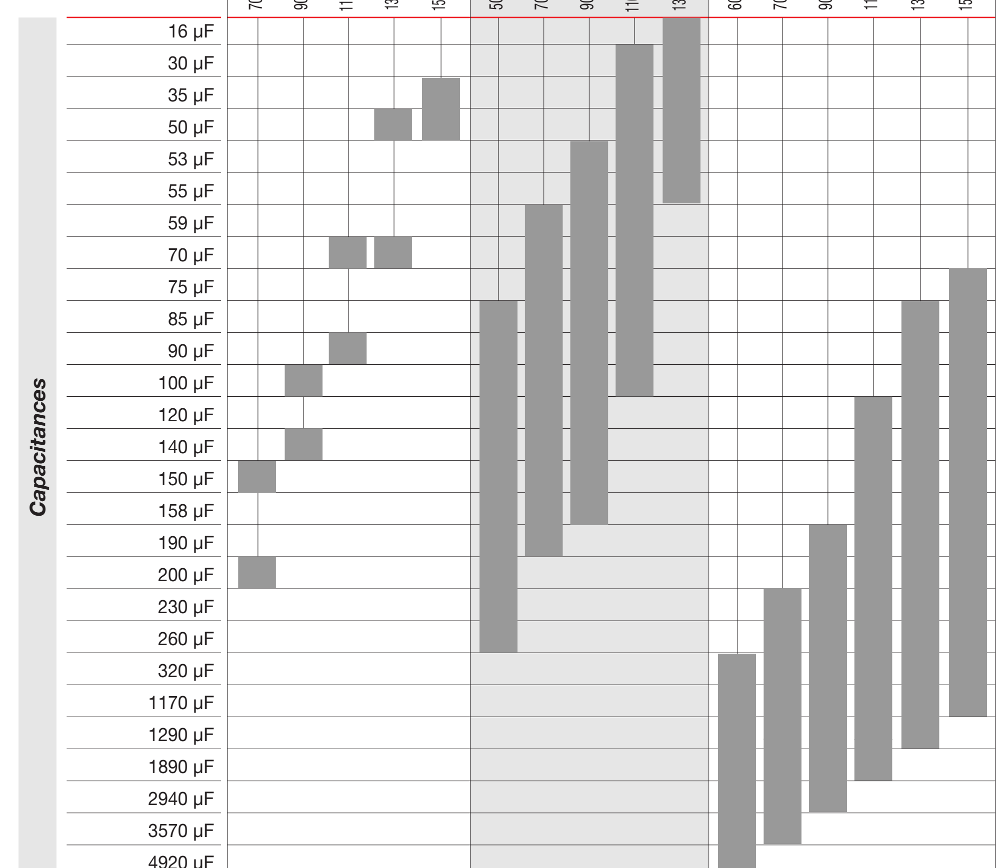
* Die Isolationswert-Angaben beziehen sich auf die jeweils niedrigste Nennspannung der Artikelreihen. Nähere Angaben für höhere Nennspannungen siehe Hauptkatalog.
* *The insulation resistance data refers to the lowest rated voltage of each range. Further details concerning higher rated voltages see general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

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

Neue Reihen. / *New ranges.*

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

DC-LINK Kondensatoren / *DC-LINK capacitors*



	metallisiert / *metallized*	metallisiert / *metallized*	metallisiert / *metallized*
	DC-LINK MKP 3	**DC-LINK MKP 5**	**DC-LINK MKP 6**
Dielectric	Polypropylene film	Polypropylene film	Polypropylene film
Temperature ranges	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Peak currents Î	up to 5 kA	up to 1.1 kA	up to 10 kA
Surge currents I_s	up to 20 kA	up to 3.5 kA	up to 40 kA
Insulation resistance at +20°C*	≥5000 s	≥5000 s	≥5000 s
Voltage ranges	700 VDC, 900 VDC, 1100 VDC, 1300 VDC, 1500 VDC	500 VDC, 700 VDC, 900 VDC, 1100 VDC, 1300 VDC	600 VDC, 700 VDC, 900 VDC, 1100 VDC, 1300 VDC, 1500 VDC
Capacitance tolerances	±20% ±10% (±5%*)	±20% ±10% (±5%*)	±20% ±10% (±5%*)

* Abhängig vom Kapazitätswert
* *Depending on capacitances.*