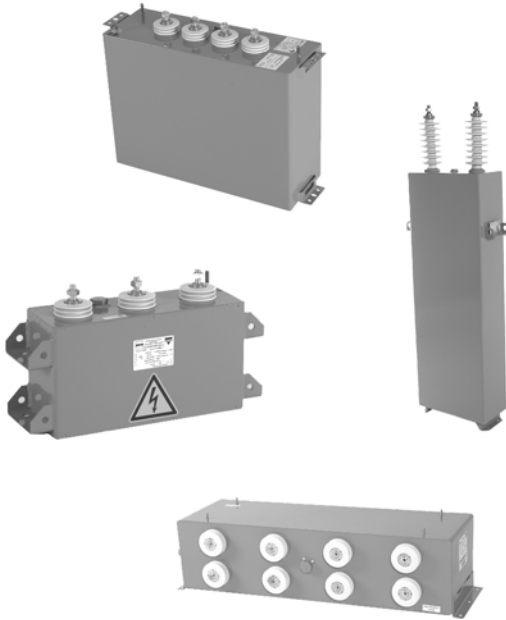


## Capacitors for Power Electronics (PEC) - Rectangular



### FEATURES

- High impulse current rating up to 600 A
- Low self inductance of < 30 nH
- High reliability and life expectancy
- Withstands heavy duty shock and vibration
- Non-polar dielectric
- Dry, resin filled

### APPLICATION

- DC linking in industrial and traction drives
- DC filtering in industrial and traction drives
- DC power storage for testing equipment
- Impulse discharge capacitors for magnetizing and welding

QUICK REFERENCE DATA	
DESCRIPTION	VALUE
Rated DC voltage min.	750 V
Rated DC voltage max.	10.0 kV
Capacitance min.	50 $\mu$ F
Capacitance max.	20 000 $\mu$ F
Technology	Metallized polypropylene film
Dissipation factor ( $\tan \delta_0$ )	< $2 \times 10^{-4}$
Capacitance tolerance	$\pm 5 \%$
Operating temperature (hotspot)	$\theta_{\min.} - 25 \text{ }^\circ\text{C}$ $\theta_{\max.} + 80 \text{ }^\circ\text{C}$
Inductance	< 100 nH
Lifetime expectancy	250 000 h at $U_{\text{NDC}}$ and < 70 $^\circ\text{C}$ hotspot
Reliability	100 FIT
Test voltage	Terminal/terminal = $1.5 \times U_{\text{NDC}}$ , 10 s; Terminal/case = $2 \times U_{\text{NDC}} + 1000 V_{\text{AC}}$ , 60 s
Casing material	Aluminum or stainless steel, antimagnetic
Filling	Resin polyurethane R40
Standards	IEC 61071-1, IEC 61881, and EN 61071-1



TYPE DESCRIPTION												
TYPE	C <sub>N</sub> [μF]	VOLTAGE V <sub>DC</sub>	R <sub>S</sub> [mΩ]	R <sub>th</sub> [K/W]	I <sub>max.</sub> [A]	I <sub>p</sub> [kA]	$\hat{i}$ [kA]	LENGTH [mm]	WIDTH [mm]	HEIGHT [mm]	WEIGHT [kg]	DRAWING NO.
<b>DCMKP 0.9/625 μF</b>												
DCMKP 0.9/625 μF	625	900	0.1	0.5	500.0	75	225	340	175	510	40	07-B-1091
<b>DCMKP 0.9/20 mF</b>												
DCMKP 0.9/20 mF	20 000	900	0.1	0.5	500.0	75	225	340	175	510	40	07-B-1091
<b>DCMKP 1.1/9.0 mF</b>												
DCMKP 1.1/9.0 mF	9000	1100	0.8	0.2	100.0	19	58	280	175	480	31	07-B-1132
<b>DCMKP 1.9/2.7 mF</b>												
DCMKP 1.9/2.7 mF	2700	1900	0.7	0.4	190.0	10.5	31.7	340	175	330	26	07-B-1285
<b>DCMKP 1.9/4.0 mF/A</b>												
DCMKP 1.9/4.0 mF/A	4000	1900	0.5	0.2	300.0	15.9	47.6	340	175	505	39	07-B-1170
<b>DCMKP 2.0/4.0 mF</b>												
DCMKP 2.0/4.0 mF	4000	2000	0.4	0.5	230.0	16.1	48.3	455	175	368	38	07-B-1270
<b>DCMKP 2.0/7.25 mF</b>												
DCMKP 2.0/7.25 mF	7250	2000	0.5	0.1	240.0	29.0	87.2	340	175	820	63	07-B-1255
<b>DCMKP 2.05/3.0 mF/B</b>												
DCMKP 2.05/3.0 mF/B	3000	2050	0.6	0.3	320	12.5	37.4	650	175	245	36	07-B-841
<b>DCMKP 2.2/1.4 mF</b>												
DCMKP 2.2/1.4 mF	1400	2200	0.4	0.5	200.0	13.2	39.7	340	175	250	20	07-B-1230
<b>DCMKP 2.8/4.0 mF/2</b>												
DCMKP 2.8/4.0 mF/2	4000	2800	0.3	0.2	560.0	45.5	136.6	1060	175	385	93	07-B-940
<b>DCMKP 3.6/710 μF</b>												
DCMKP 3.6/710 μF	710	3600	0.6	0.5	240.0	11.7	35.0	455	340	175	35	07-B-1150
<b>DCMKP 3.63/1.5 mF/2</b>												
DCMKP 3.63/1.5 mF/2	1500	3630	0.5	0.3	420.0	20.0	28.5	800	170	315	56	07-B-1134
<b>DCMKP 3.75/1.25 mF/T</b>												
DCMKP 3.75/1.25 mF/T	1250	3750	0.5	0.3	250.0	20.7	62.2	680	175	345	54	07-B-1265
<b>DCMKP 4.0/625 μF</b>												
DCMKP 4.0/625 μF	625	4000	0.8	0.7	150.0	10.1	30.2	250	175	450	26	07-B-1311
<b>DCMKP 4.25/2.57 mF/2</b>												
DCMKP 4.25/2.57 mF/2	2570	4250	0.4	0.3	600.0	36.8	11.0	420	175	1140	109	07-B-1222
<b>DCMKP 4.25/2.57 mF/4</b>												
DCMKP 4.25/2.57 mF/4	2570	4250	0.4	0.3	600.0	36.8	11.0	420	175	1140	109	07-B-1222

Notes

- Every voltage, current, capacitance value, casing and terminal design is available on request
- All above listed types are for reference only!



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