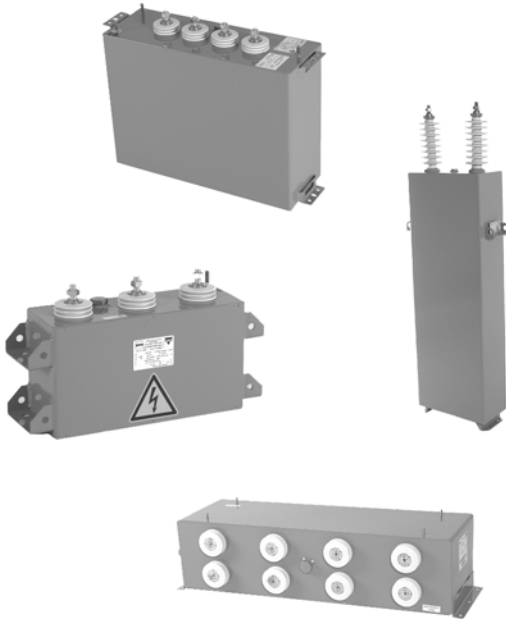


Capacitors for Power Electronics (PEC) - Rectangular



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 μ F |
| Capacitance max. | 20 000 μ F |
| Technology | Metallized polypropylene film |
| Dissipation factor ($\tan \delta_0$) | < 2×10^{-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_{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 _N [μF] | VOLTAGE V _{DC} | R _S [mΩ] | R _{th} [K/W] | I _{max.} [A] | I _p [kA] | \hat{i} [kA] | LENGTH [mm] | WIDTH [mm] | HEIGHT [mm] | WEIGHT [kg] | DRAWING NO. |
| DCMKP 0.9/625 μF | | | | | | | | | | | | |
| DCMKP 0.9/625 μF | 625 | 900 | 0.1 | 0.5 | 500.0 | 75 | 225 | 340 | 175 | 510 | 40 | 07-B-1091 |
| DCMKP 0.9/20 mF | | | | | | | | | | | | |
| DCMKP 0.9/20 mF | 20 000 | 900 | 0.1 | 0.5 | 500.0 | 75 | 225 | 340 | 175 | 510 | 40 | 07-B-1091 |
| DCMKP 1.1/9.0 mF | | | | | | | | | | | | |
| DCMKP 1.1/9.0 mF | 9000 | 1100 | 0.8 | 0.2 | 100.0 | 19 | 58 | 280 | 175 | 480 | 31 | 07-B-1132 |
| DCMKP 1.9/2.7 mF | | | | | | | | | | | | |
| 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 |
| DCMKP 1.9/4.0 mF/A | | | | | | | | | | | | |
| 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 |
| DCMKP 2.0/4.0 mF | | | | | | | | | | | | |
| 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 |
| DCMKP 2.0/7.25 mF | | | | | | | | | | | | |
| 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 |
| DCMKP 2.05/3.0 mF/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 |
| DCMKP 2.2/1.4 mF | | | | | | | | | | | | |
| 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 |
| DCMKP 2.8/4.0 mF/2 | | | | | | | | | | | | |
| 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 |
| DCMKP 3.6/710 μF | | | | | | | | | | | | |
| DCMKP 3.6/710 μF | 710 | 3600 | 0.6 | 0.5 | 240.0 | 11.7 | 35.0 | 455 | 340 | 175 | 35 | 07-B-1150 |
| DCMKP 3.63/1.5 mF/2 | | | | | | | | | | | | |
| 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 |
| DCMKP 3.75/1.25 mF/T | | | | | | | | | | | | |
| 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 |
| DCMKP 4.0/625 μF | | | | | | | | | | | | |
| DCMKP 4.0/625 μF | 625 | 4000 | 0.8 | 0.7 | 150.0 | 10.1 | 30.2 | 250 | 175 | 450 | 26 | 07-B-1311 |
| DCMKP 4.25/2.57 mF/2 | | | | | | | | | | | | |
| 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 |
| DCMKP 4.25/2.57 mF/4 | | | | | | | | | | | | |
| 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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