Power Electronic Capacitors (PEC) - Rectangular



FEATURES

- High impulse current rating
- Low inductance
- High reliability and lifetime expectation
- Resistance to heavy-duty shock vibration
- Non-polar dielectric
- Dry resin filled

APPLICATIONS

- DC link capacitors for HVDC / STATCOM
- Static converters for transportation:
  - Heavy-haul locomotives
  - Light local trains
  - Trolley buses
  - Trams / streetcars
- Industrial converters
- DC supply equipment
- High voltage testing systems
- Impulse discharge energy
- Harmonic filtering

LINKS TO ADDITIONAL RESOURCES

3D Models

QUICK REFERENCE DATA	
DESCRIPTION	**VALUE**
Rated DC voltage min.	750 V_{DC}
Rated DC voltage max.	10 000 V_{DC}
Capacitance min.	50 µF
Capacitance max.	20 000 µF
Capacitance tolerance	± 5 %
Technology	Metallized polypropylene film, self-healing
Dielectric dissipation factor	< 2 x 10^{-4}
Operating temperature min.	-40 °C
Operating temperature max.	+85 °C (hotspot)
Inductance	< 40 nH
Lifetime expectancy	> 250 000 h at U_{NDC} and < 70 °C hotspot
Reliability	< 100 FIT
Test voltage	U_{tt} = 1.5 x U_{NDC}/10 s; U_{tc} = 2 x U_{NDC} + 1000 V_{AC}/10 s
Casing	Aluminum or stainless steel
Filling	Dry resin
Standard	IEC 61071, IEC 61881-1

Contact Us

Other voltage, current, and capacitance values are available on request without additional cost and lead time for the individual design.

For technical questions, contact: esta@vishay.com

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