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Vishay Draloric

RF Power Feed-Through Capacitors with Band Conductor, Class 1 Ceramic



| QUICK REFERENCE DATA | | | | | | | |
|---------------------------|----------------|-----------|--|--|--|--|--|
| DESCRIPTION | VALUE | | | | | | |
| Ceramic Class | 1 | | | | | | |
| Ceramic Dielectric | R85 | R85, R230 | | | | | |
| Туре | DS 030070 | DS 030110 | | | | | |
| Voltage (V _p) | 8000 | 12 000 | | | | | |
| Min. Capacitance (pF) | 500 | 800 | | | | | |
| Max. Capacitance (pF) | 800 | 1800 | | | | | |
| Mounting | Screw terminal | | | | | | |

MATERIAL

Capacitor elements made from Class 1 ceramic dielectric with noble metal electrodes.

Connection terminals:

Made from copper/brass, silver plated

FINISH

Capacitor body completely protective laquered

The contoured insulating rims are additionally glazed

MARKING

Type designator, capacitance value and tolerance, rated peak voltage, ceramic material code, production date code, manufacturer logo

FEATURES

- Small size
- · Geometry minimizes inductance
- High feed-through currents

APPLICATIONS

Filtering purposes in industrial and medical RF power equipment, where high voltages and high feed-through currents are required

CAPACITANCE RANGE

500 pF to 1.8 nF

CAPACITANCE TOLERANCE

± 20 %; ± 10 %; ± 5 %

CERAMIC DIELECTRICS

- R85 (TCC 750 ppm/K)
- R230 (TCC 750 ppm/K)

RATED VOLTAGE

- 8.0 kV_p
- 12.0 kV_p

DIELECTRIC STRENGTH TEST

200 % of rated AC voltage (50 Hz, 5 minutes)

DISSIPATION FACTOR

Max. 0.05 %

Measuring frequencies:

1 MHz (< 1 nF); 300 kHz or 100 kHz (≥ 1 nF)

INSULATION RESISTANCE

Min. 100 000 M Ω (at 25 °C)

OPERATING TEMPERATURE RANGE

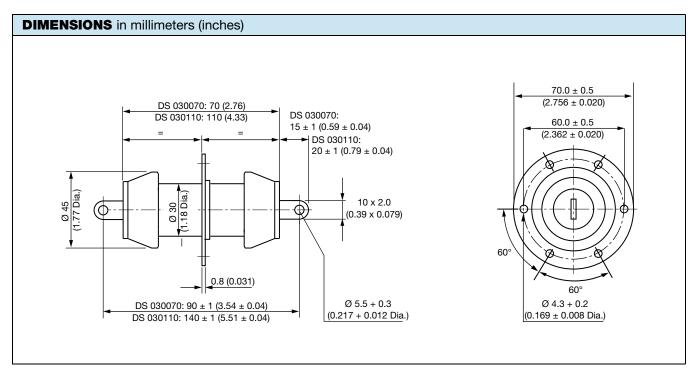
- 55 °C to + 100 °C

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| SAP PART NUMBER AND ELECTRICAL DATA | | | | | | | | |
|-------------------------------------|---------|------------------------|--|---|---|---|--|--|
| PART NUMBER | CERAMIC | CAP. VALUES (pF) | RATED VOLTAGE (kV _P) | RATED POWER ⁽¹⁾ (kvar) | RATED CURRENT (A _{RMS}) | FEED-THROUGH CURRENT ⁽²⁾ (A) | | |
| TYPE DS 030070 | | | | | | | | |
| DS030070BP501##BJ1 | R85 | 500 | 8 | 16 | 10 | 20 | | |
| DS030070BP601##BJ1 | | 600 | | | | | | |
| DS030070BP801##BJ1 | | 800 | | | | | | |
| TYPE DS 030110 | | | | | | | | |
| DS030110WF801##BJ2 | R85 | 800 | 12 | 30 | 10 | 20 | | |
| DS030110WF182##BK1 | R230 | 1800 | | | | | | |

Notes

- ## 14th to 15th digit: Capacitance tolerance code \pm 20 % = 38, \pm 10 % = 36, \pm 5 % = 33
- (1) The surface temperature during operation must not exceed + 100 °C
- (2) DC or low frequency RMS current (< 20 kHz)

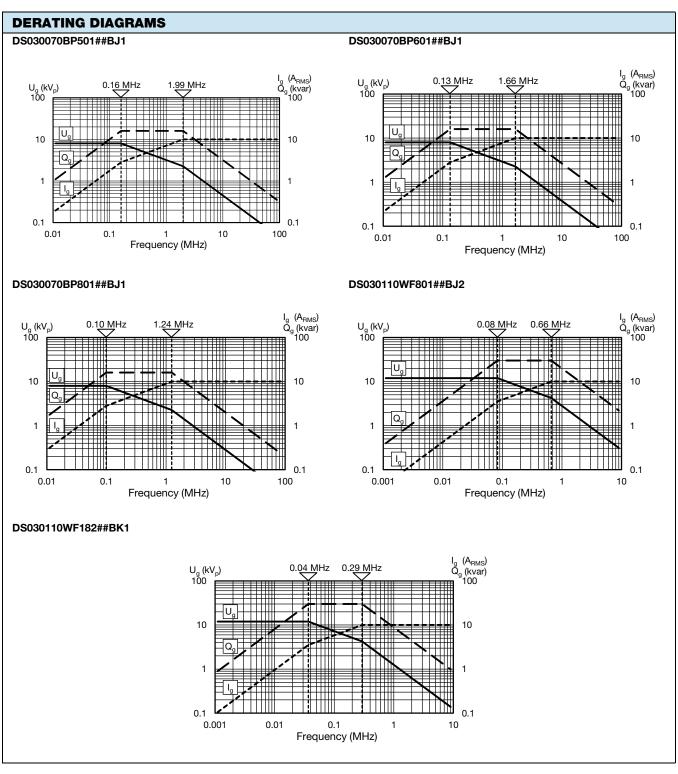


MOUNTING GUIDELINES

- The connection to one electrode must be flexible in order to prevent the generation of physical force which could damage the capacitor elements. Such forces are often generated by the dimensional differences resulting from the normal physical tolerances of these components.
- The capacitor elements must not be used as a mechanical support for other devices or components.



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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина,

дом 2, корпус 4, литера А.