METAL FILM RESISTORS

PR02-FS

High Pulse, Fusible, Non-Inductive, Flameproof, Metal Film Resistor

KEY BENEFITS

- Inherent non-inductive design
- Ohmic values > 50 Ω can withstand 600 V surge as per defined in IEC 61000-4-5
- Fusing time < 10 s for 80 W overload
- Product meets requirements of UL1412 safety approval (formal UL1412 approval pending).
- Voltage surge withstanding up to 600 V (1.2/50 µs pulse as defined in IEC 61000-4-5)

APPLICATIONS

- Electric home appliances (e.g. washing machines, shaver chargers, etc.)
- Inrush current limiting resistor in low voltage power supplies (luminaries and lighting applications)
- Snubber resistor for inductive loads

RESOURCES

- Datasheet: PR02-FS - www.vishay.com/doc?28915
- For technical questions contact: ww1resistors@vishay.com
- Material categorization: For definitions please see www.vishay.com/doc?99912

Pb-free RoHS COMPLIANT HALOGEN FREE GREEN (5-2008)

A WORLD OF SOLUTIONS

METAL FILM RESISTORS

PR02-FS

High Pulse, Fusible, Non-Inductive, Flameproof, Metal Film Resistor

FEATURES

- Designed to meet UL1412 safety requirements
- Defined fusing characteristics
- Inherent non-inductive design
- Superior surge handling capability > 600 V (1.2 / 50 µs pulse)
- Meets active and passive flammability requirements as defined in IEC 60115-1 and UL 94-V0
- Radial version is available
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

DESCRIPTION

The specially developed product PR02-FS can be used for applications in which defined fusible characteristics and high voltage pulse handling is required. So this makes it easy for designers to meet safety requirements in their designs by selecting such products. Main applications are in lighting electronics.

APPLICATIONS

- All general purpose power applications
- Lighting ballast
- Lighting electronics
- Snubber resistor for inductive loads

TECHNICAL SPECIFICATIONS	
DESCRIPTION	**PR02-FS**
DIN size	0411
Resistance range	1 Ω to 100 Ω
Resistance tolerance	± 10 %; ± 20 %
Temperature coefficient	± 250 ppm/K
Operating Temperature	-55 °C to +200 °C
Rated dissipation, P_{70}	2 W
E-series	E12 (± 10 % and ± 20 %)
Generic specification	IEC 60115-1
Stability after:	
Endurance at 70 °C; 1000 h	ΔR max.: ± (5 % R + 0.1 Ω)
Damp heat, steady state (56 days)	ΔR max.: ± (3 % R + 0.1 Ω)
Resistance to soldering heat (10 s, 260 °C)	ΔR max.: ± (0.5 % R + 0.05 Ω)

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