



LINE INPUT RESISTORS FOR ENERGY METERING

PEM (Lightning Managers)

Description

The PEM range of resistors has been developed over the last 15 years to meet and exceed the demands of the Electronic Energy Metering industry.

Electricity transmission and distribution companies across the world have been demanding higher surge immunity capability to improve the reliability of the meters and to protect them from unpredictable lighting surges.

PEC has worked with leading global meter manufacturers to provide resistive products which help ensure electronic meters meet the IEC-61000-4-5 specification requirement.

These resistors are specifically designed to absorb high energy surges applied at high voltages.

The tests are conducted using 1.2/50us at voltages varying from 4KV to 12KV with a 2 ohms output impedance source.

Resistors are available in a range of ohmic values rated to withstand 4KV to 12KV pulses in different power ratings.

Voltage Withstand

As the performance of the resistor in voltage stress condition is related directly to the ohmic value, each resistor is qualified by the page 3 addendum defining Voltage Withstand performance and Test Conditions. We are able to conduct specific further specific testing to meet customers own requirements on request.

Key Features

SPECIALLY DESIGNED FOR PROTECTION OF ELECTRONIC ENERGY METERS

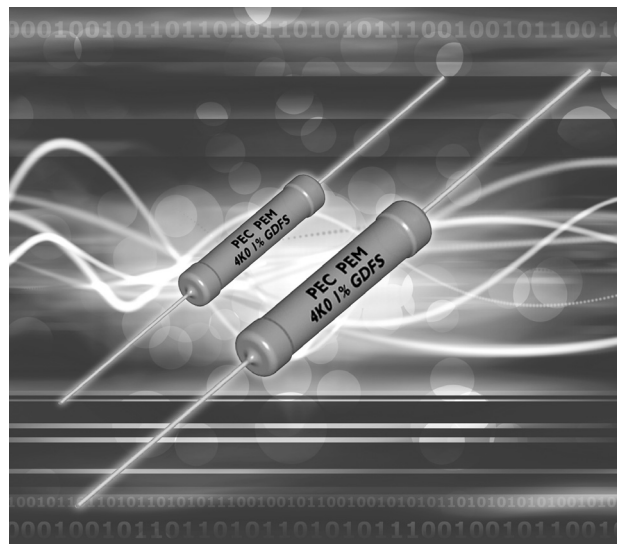
PROTECTS MOV FROM LIGHTNING STRIKES AND INCREASES LIFE

FIELD PROVEN PRODUTS WITH 15 YEARS OF APPLICATION DEVELOPMENT

RANGE OF VOLTAGE RATINGS AVAILABLE

CUSTOM RESISTANCE VALUE AND SPECIAL BODY SIZES AVAILABLE

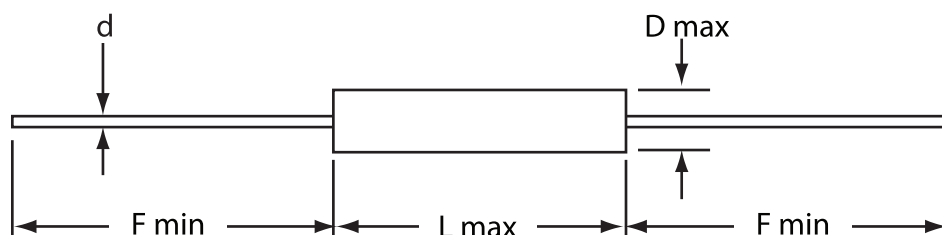
FLAMEPROOF DESIGN FOR SAFE FUSING IN EVENT OF SHORT CIRCUITS.





DIMENSION DATA:

Type	Resistance Range	Power @25C	Lmax	Dmax	Fmin	Fmax On Request	dnom	Strike Pulse Rating IEC 61000-4-5 - 1.2/50µsec Waveshape
EM2	3R9-2K	2	12	5	25	36	0.8	1.5KV to 5KV
EM3	3R9 - 2K7	3	14.5	5.5	25	36	0.8	2KV to 6KV
EM4	2R7-3K3	4	17	5.5	25	36	0.8	3KV to 8KV
EM5	1R8-4K7	5	19	7	25	36	0.8	3KV to 8KV
EM6	1R8-6K8	6	23	8	25	39	0.8	4KV to 11KV
EM7	1R-7K5	7	26	8	25	36	0.8	5KV to 12KV
EM9	1R-10K	10	39	8	25	36	0.8	6KV to 15KV



ORDER CODE :

Type	Resistance Range	Tolerance	Packing	Release	Lead Length	TCR	Resistor Marking	RoHS Compliance
EM	10ohms- 10R	2% - G	Ammo - A	Comm - X	Standard - S	Standard - S	C - Colour	R - RoHS
	220Ohms -220R	5% - J			Vertical - V	Special - M	Banded	Compliant
	1000ohms - 1K	10% - K			Special - M (Specify Length)	(Specify Max Allowed TCR)	P - Legend Marked	L - Leaded Solder Leads

WE HAVE AN EMPIRICAL TECHNICAL DATABASE DERIVED FROM YEARS OF TESTING AND FIELD APPLICATION STUDIES. WE WILL BE DELIGHTED TO SHARE THIS WITH CUSTOMERS WHO ARE IN PROCESS OF DESIGNING NEW METERING PRODUCTS.

For Design in Assistance

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