

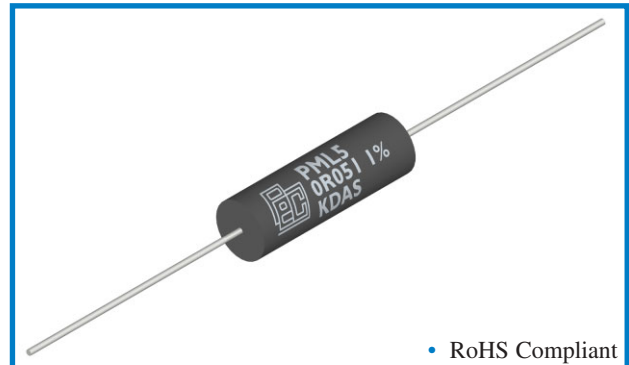


Low Ohmic, Moulded Construction, Non-Inductive, Axial

Series PML

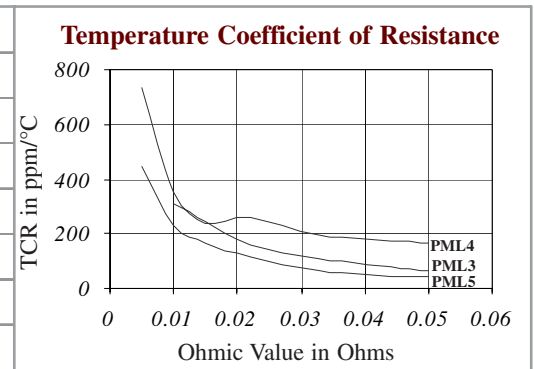
Key Features

- R005 to R051 Resistance Values.
- Negligible Inductance.
- Suitable For Current Sensing.
- Suitable For High Frequency Circuits.
- Encapsulated in High Temp Moulding Compound.
- High Quality Welded Joints.
- Available in Bulk, Ammo & Reel Packing.



Electrical Specifications and Environmental Characteristics

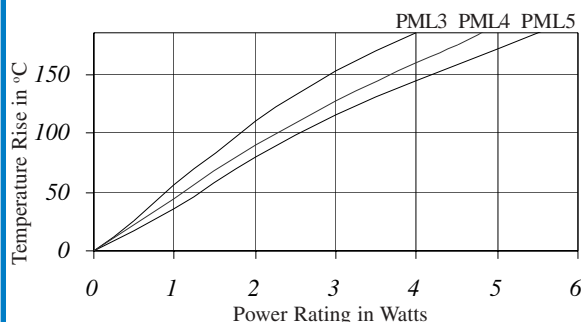
Tolerance	±1%, ±2%, ±5%
Resistance Values	0R005 to 0R051
Rated Dissipation	3, 4.5, and 5 Watts at 25°C
TCR	Please Refer Chart
Derating	From 25° to 275°C
Max. Voltage	$\sqrt{(PxR)}$ AC RMS
Temperature Range	-65°C to 275°C
Solderability	95% Coverage as per MIL STD 202F, Test 208



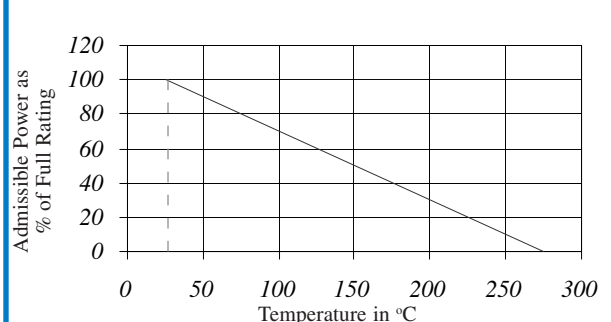
Performance Characteristics

Test Methods	Test Conditions	Test Limits
Endurance at Rated Power	Full Rated Power for 1000hrs (1.5hrs ON, 0.5hrs OFF)	$\Delta R < 2.0\%$
Terminal Strength	Pull Strength of 50N for 10 Seconds, IEC 115-1, 4.16, Test U _{a1}	$\Delta R < 0.5\%$
Resistance to Soldering Heat	260°C for 10 Seconds, IEC 115-1, Clause 4.18	$\Delta R < 0.5\%$
Dielectric Strength	1000VAC for one minute, IEC 115-1, Clause 4.7, 2.2.17	$\Delta R < 0.1\%$
Insulation Resistance	Test Voltage 500V, IEC 115-1, Clause 4.6, 2.2.19	>1000 M Ω
Thermal Shock	-55°C to +200°C, 5 cycles, IEC 68-2-14, Clause 4.19, Test Na	$\Delta R < 1.0\%$
Short Term Overload	5 x Rated power for 5 seconds	$\Delta R < 0.5\%$

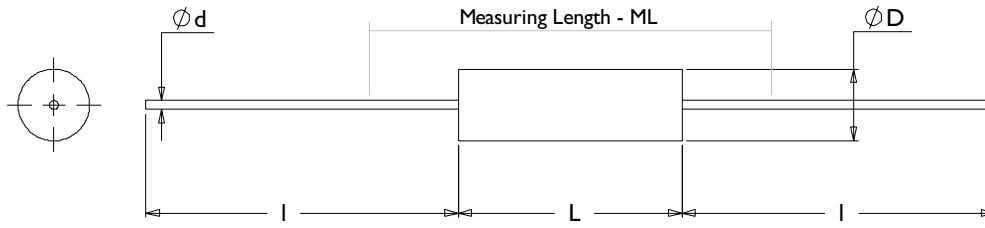
Temperature Rise Graphs



Derating Curve²



Dimensions



Do not Scale Drawings.
All dimensional tolerances in mm.

Dimensions (in mm)

Type	L	D	d	l	ML
	± 0.25	± 0.25	± 0.05	Nom.	
PML3	14.22	5.33	0.80	38.10	33.40
PML4	19.05	6.35	0.80	38.10	40.00
PML5	23.50	8.38	1.02	38.10	42.54

Dimensions (in inches)

Type	L	D	d	l	ML
	± 0.01	± 0.01	± 0.002	Nom.	
PML3	0.560	0.210	0.031	1.500	1.315
PML4	0.750	0.250	0.031	1.500	1.574
PML5	0.925	0.330	0.040	1.500	1.674

To Order - Please Specify

PEC Type.	Ohmic Value	Tolerance	Packing Style	Release Condition	Special Request If any
PML□	0.005 Ohm »0R005	1% » F	Bulk » B	Commercial » X	Standard » S
	0.01 Ohm »0R01	2% » G	Ammo » A		Others » M
		5% » J	Tape & Reel » B		Please Specify

A Sample Part No.: **PML3 0R01 JBXS**

Notes

- On request we undertake tests for Batch Acceptance to a specified Reference Standard.
- The Derating Curve specifies the maximum allowable Power at a particular ambient temperature while ensuring that the maximum surface temperature remains within the designed limit.
- When the Resistor is subjected to a Pulse Load, please ensure that the *average* Power dissipated remains below the rated Power specified.
- Resistor performance with Pulse Loads will have to be application tested. Please utilise our Pulse Application Questionnaire for selecting a suitable type or for requesting any design-in assistance from us.

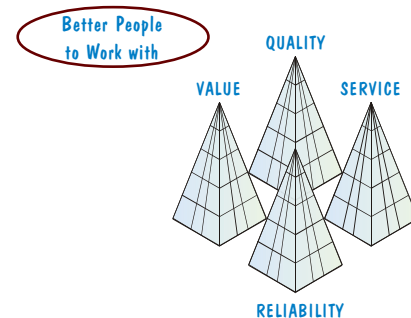
Additional Notes

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To offer our products through regionally trusted services we have territory-wise and product-wise distribution, franchising, resale and private brand labelling arrangements. For cost-effective and enduring solutions to your needs, for tailored stocking/delivery scheduling, logistics and administrative support, please do not hesitate to contact us or any of our associated representatives, coordinators and product specialists.



Thoughtful engineering and production by a well trained work-force, backed by strong design and development skills, enable us to maintain a level of manufacture and service recognised internationally.
At PEC we offer well-tuned customised support.