

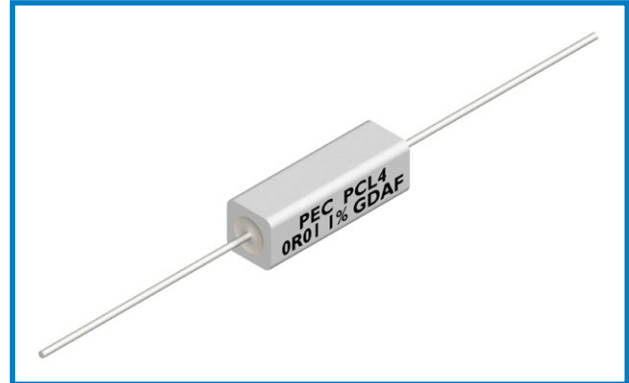


Low Ohmic, Non-Inductive, Axial

Series PCL

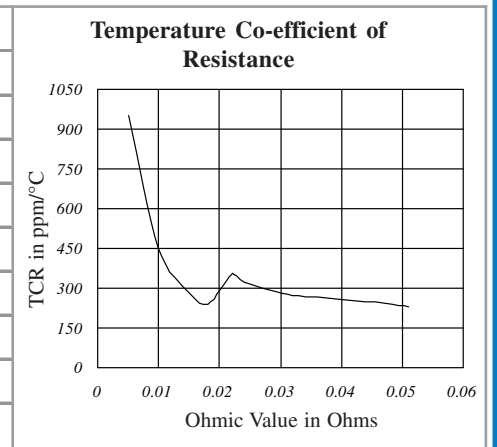
Key Features

- R005 to R051 Resistance Values.
- Negligible Inductance.
- Suitable For Current Sensing.
- Suitable For High Frequency Circuits.
- High Insulation Resistance.
- Square Ceramic Case.
- High Quality Welded Joints.



Electrical Specifications and Environmental Characteristics

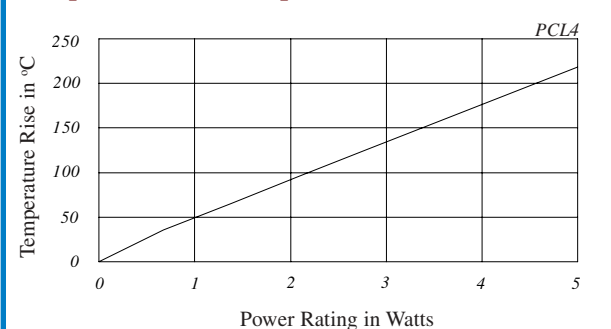
Resistance Values	R005, R01, R015, R018, R022, R033, R047, R051
Tolerance	10%, 5%, 1%
Rated Dissipation	4 Watts at 70°C
TCR	Pls. Refer Chart
Derating	From 70° to 250°C
Max. Voltage	$\sqrt{(PxR)}$ AC RMS
Temperature Range	-55°C to 250°C
Load Life	$\Delta R < 5\%$
Solderability	95% Coverage as per MIL STD 202F, Test 208
Climatic Category	55 / 200 / 56



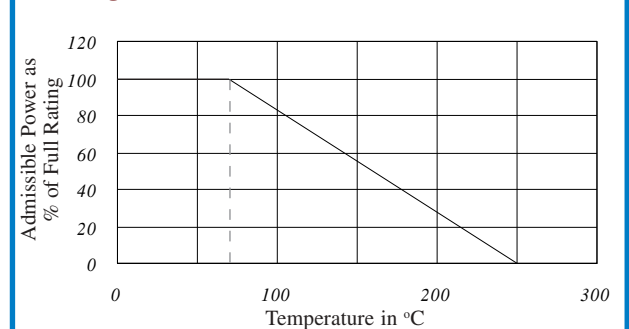
Performance Characteristics

Test Methods	Test Conditions	Test Limits
Endurance at Rated Power	Full Rated Power for 1000hrs (1.5hrs ON, 0.5hrs OFF)	$\Delta R < 5\%$
Terminal Strength	Pull Strength of 50N for 10 Seconds, IEC 115-1, 4.16, Test Ua ₁	5Kgs
Resistance to Soldering Heat	260°C for 10 Seconds, IEC 115-1, Clause 4.18	$\Delta R < 0.5\%$
Long Term Damp Heat	90-95% RH @40°C for 56 Days, IEC 115-1, Clause 4.24	$\Delta R < 5\%$
Climatic Sequence	As per IEC 115-1, Clause 4.23	$\Delta R < 5\%$

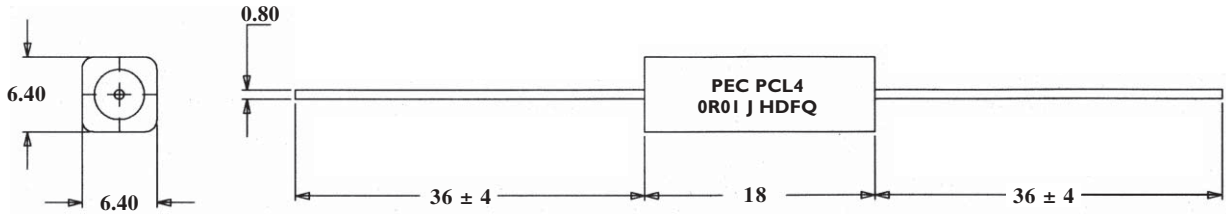
Temperature Rise Graphs



Derating Curve²



Dimensions



Do not Scale Drawings.
All dimensional tolerances in mm.

To Order - Please Specify

PEC Type.	Ohmic Value	Tolerance	Packing Style*	Release Condition	Special Request If any
PCL4	0.005 Ohm » 0R005	1% » F	Bulk » B	Commercial » X	Standard » S
	0.01 Ohm » 0R01	5% » J			Others » M
	0.051 Ohm » 0R051	10% » K			Please Specify

A Sample Part No.: **PCL4 0R01 JBXS**

Notes

- 1 On request we undertake tests for Batch Acceptance to a specified Reference Standard.
- 2 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.
- 3 When the Resistor is subjected to a Pulse Load, please ensure that the *average* Power dissipated remains below the rated Power specified.
- 4 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.

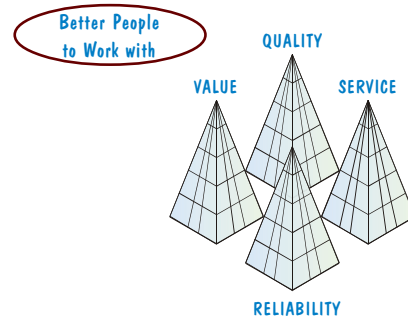
Additional Notes

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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.