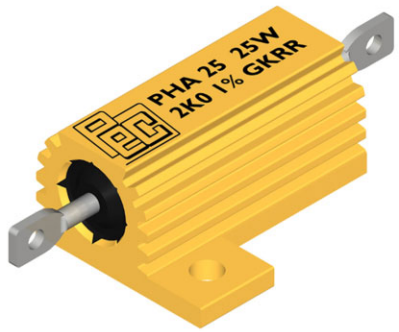
Aluminium Housed, Chassis Mount

Series PHA

Key Features

- External Aluminium Encasing.
- Power Rating 25W, 50W.
- Excellent Stability in Operation.
- Non-Inductive and Close Tolerance Types.
- All Welded Construction for Maximum Reliability.
- Moulded Construction for Excellent Environmental Protection
- Reference Standards
  - BS CECC 40203-001
  - MIL-R-18546



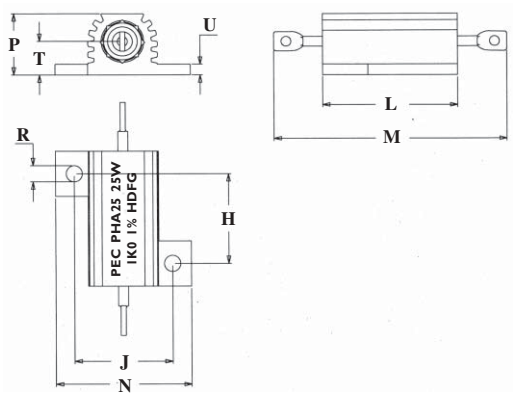
Electrical Specifications and Environmental Characteristics

Electrical Specifications	PHA25	PHA50
Tolerance	±0.05%, ±0.1%, ±0.25%, ±0.5%, ±1%, ±2%, ±3%, ±5%, ±10%	
TCR	For <10Ω : < ±100ppm/°C ; For >10Ω : < ±50ppm/°C	
Resistance Range	R051 - 20K	R010 - 100K
Dielectric Strength	2500 V	2500 V
Max.Working Voltage	550V	1250V
Surface Temp.Rise Mounted on a Std. Heat Sink in °C / Watt	4	2.9
Std. Heat Sink Area	535	535
Std. Heat Sink Thickness	1	1
Approx. Weight	12.5	29
Dissipation @25°C (With Heat Sink)	25	50
Dissipation @25°C (Without HeatSink)	12.5	20
Stability at Rated Power	±1%	±1%
CECC Style Reference	CA	DA
MIL - Style	RE70	RE75
Climatic Category	55/200/56	55/200/56

Performance Characteristics

Test Methods	Test Conditions	Test Limits
Endurance at Room Temperature	As per BS-CECC (1.5Hrs ON, 0.5Hrs OFF) for 1000Hrs.	ΔR < 1% + 0R05
Short Term Overload	5 x Rated Power or Isolation Voltage (Lesser of the two Voltages)	ΔR < 1% + 0R05
Robustness of Terminations	As per BS-CECC Clause 4.14.2, 20N Tensile Force	ΔR < 0.25% + 0R05
Resistance to Soldering Heat	As per BS-CECC Clause 4.15.2, 260°C, 10 Seconds	ΔR < 0.25% + 0R05
Rapid Change of Temperature	-55°C/200°C, 5 Cycles as per BS-CECC Clause 4.16	ΔR < 0.25% + 0R05
Bump	4000 Bumps at 40g as per BS-CECC Clause 4.17	ΔR < 0.25% + 0R05
Vibration	10Hz to 500Hz, 0.75mm Amplitude or 10g, 6 hrs	ΔR < 0.25% + 0R05
Damp Heat Steady State	90-95% RH, 40°C, 56 Days as per BS-CECC Clause 4.21	ΔR < 1% + 0R05

Dimensions



Do not Scale Drawings.
All dimensional tolerances in mm.

Dimensions (mm)

Type	H	J	L		M	N	P	R		T	U	
	± 0.3	± 0.3	Max	Nom	Max	Nom	Max	Min	Nom	± 0.3	Max	Nom
PHA25	18.3	19.8	29.0	27.5	51.8	28.0	15.0	2.8	3.3	6.7	3.2	2.0
PHA50	39.7	21.4	51.0	50.0	72.5	30.0	17.0	2.8	3.3	7.9	3.2	2.3

Dimensions (Inches)

Type	H	J	L		M	N	P	R		T	U	
	± 0.012	± 0.012	Max	Nom	Max	Nom	Max	Min	Nom	± 0.012	Max	Nom
PHA25	0.72	0.78	1.142	1.082	2.039	1.102	0.59	0.110	0.129	0.283	0.126	0.079
PHA50	1.563	0.843	2.008	1.969	2.854	1.181	0.669	0.110	0.130	0.311	0.126	0.091

To Order - Please Specify

PEC Type.	Ohmic Value	Tolerance	Packing Style	Release Condition	Special Request If Any.
PHA25	0.1 Ohm » 0R1 / R10 1 Ohm » 1R0 1 KOhm » 1K0 10.7 KOhm » 10K7	1% » F 2% » G 5% » J 10% » K	Bulk » B	Commercial » X CECC » F MIL » M	Standard » S Others » M Please Specify

A Sample Part No.: PHA25 1K0 FBXS

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.

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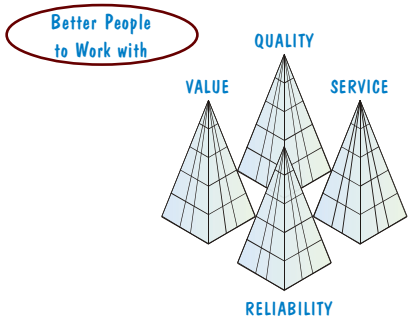

Thoughtful engineering and production by a well trained work-force, backed by strong design and development skills, enable us to maintain a level of manufacture and service recognised internationally.
At PEC we offer well-tuned customised support.

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