Ceramic Cased, Vertical — Series PQM

Key Features

- 2W to 10W Power Rating.
- All Welded Construction.
- Close Tolerance & Low TCR's Available.
- Space Saving Vertical Design
- Built in Ceramic Standoff's
- Low Surface Temperature
- Pulse Withstanding Versions Available.

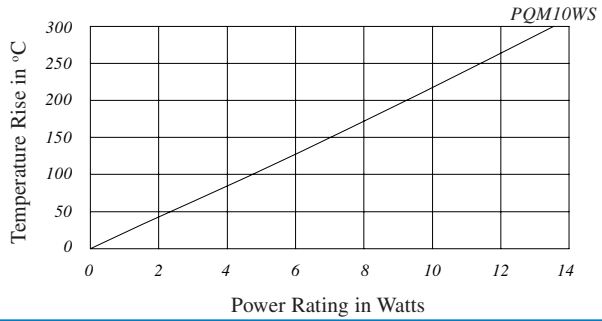
Electrical Specifications and Environmental Characteristics

Type	Power @70°C Watts	Ohmic Range Ohms Min	Ohmic Range Ohms Max	Additional Specifications	
				Tolerance	For R < 1Ω : 10%, R > 1Ω : 5%. On request 1%, 2%.
				TCR-Standard	±200ppm/°C, <450ppm/°C for Low Values
PQM2	2	0R05	2K7	TCR-On Request	Down to ±20 ppm/°C
PQM3	3	0R05	6K8	Derating	From 70° to 275°C
PQM5	5	0R05	6K8	Climatic Category	55 / 200 / 56
PQM7	7	0R10	8K2	Solderability	95% Coverage, MIL Std 202F, Test 208
PQM10WS	10	0R10	20K	Solvent Resistance	As Per IEC 115-1, Clause 4.30, Test XAof IEC 68-2-45

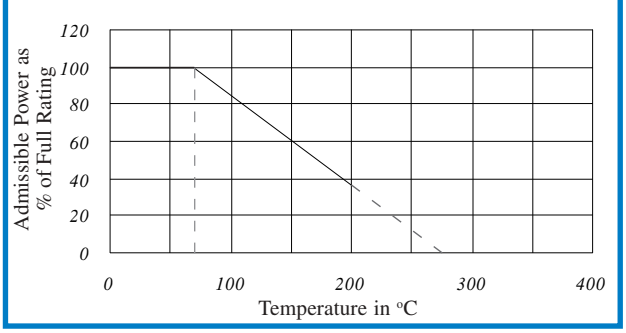
Performance Characteristics

Test Methods	Test Conditions	Test Limits
Short Term Overload	5 x Rated Power for 5 Seconds, IEC 115-1, Clause 4.13	ΔR < ± 1%
Endurance at Rated Power	Full Rated Power for 1000hrs (1.5hrs ON, 0.5hrs OFF)	ΔR < 5% + 0R05
Terminal Strength	Pull Strength of 50N for 10 seconds, IEC 115-1, Clause 4.16, Test Ua_1	ΔR < 0.5% + 0R05
Insulation Resistance	As Per IEC 115-1, Clause 2.2.17, 500 MOhms at 500VDC	500 MOhm
Dielectric Strength	1KV AC for 1 Min, IEC 115-1, Clause 2.2.17	No Break Down
Damp Heat Steady State	90-95% RH@40°C Amb. Tempr. for 21 days, IEC 115-1, Clause 4.18	ΔR < ±3%
Incombustibility	6 x Rated Wattage for 5 Mins	No Flames Observed
Resistance to Soldering	10 Seconds Dip in Solder Bath at 260°C, IEC 115-1, Clause 4.18	ΔR < ±1%

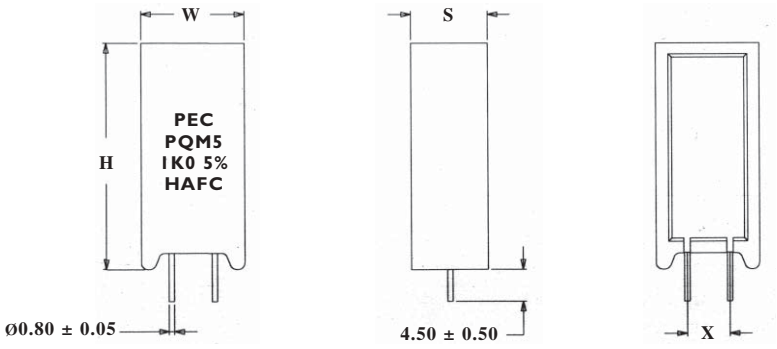
Temperature Rise Graphs



Derating Curve[2]



Dimensions



Do not Scale Drawings.
All dimensional tolerances in mm.

Dimensions (mm)

Type	H ± 1.5	W ± 1.0	S ± 1.0	X + 2.0 - 1.0
PQM2	21.0	11.0	7.5	5.0
PQM3	25.0	12.0	8.5	5.0
PQM5	25.0	13.0	9.0	5.0
PQM7	39.0	13.0	9.5	5.0
PQM10WS	35.0	16.0	12.0	7.5

Dimensions (Inches)

Type	H ± 0.059	W ± 0.0394	S ± 0.0394	X + 0.0787 - 0.0394
PQM2	0.827	0.433	0.295	0.1969
PQM3	0.984	0.472	0.335	0.1969
PQM5	0.984	0.512	0.354	0.1969
PQM7	1.535	0.512	0.374	0.1969
PQM10WS	1.378	0.630	0.472	0.2953

To Order - Please Specify

PEC Type.	Ohmic Value	Tolerance	Packing Style	Release Condition	Special Requirements
PQM5	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	Standard » S Others » M Please Specify

A Sample Part No.: PQM5 1K0 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.

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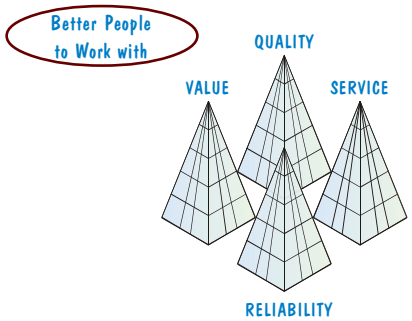

Thoughtful engineering and production by a well trained work-force, backed by strong design and development skills, enable us to maintain a level of manufacture and service recognised internationally.
At PEC we offer well-tuned customised support.

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