Precision Electronic Components Mfg. Co.

Premium Grade Components



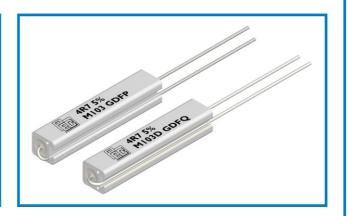
For Original, Innovative and Cost-Effective Solutions to demanding Specifications

Slotted Ceramic Cased, Vertical Mounting / Dual Mounting

Series PGM/PGMD

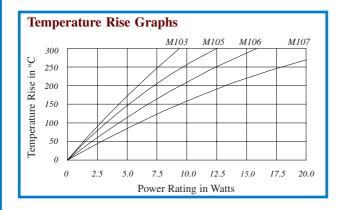
Key Features

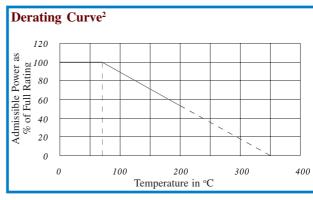
- 4W to 17W Power Rating, Ceramic Encased.
- PGM Lead Through Hole for Vertical Mounting.
- PGMD-Long Lead for Horizontal & Vertical Mounting.
- High Insulation Resistance.
- High Surge Versions.
- Low Surface Temperature.
- Reference Standards.
 - IEC 115-1

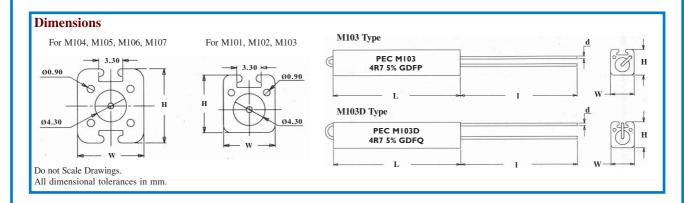


Electrical Specifications and Environmental Characteristics							
Туре	Power @70°C	Ohmic Range Ohms		Additional Specifications			
	Watts	Min	Max	Tolerance	Standard $\leq 10\Omega \pm 10\%$, $>10\Omega \pm 5\%$, On Request $\pm 2\%$		
M101/M101D	4	0R1	6K8	Applicable E-Series	E24(5%), E12(10%); Other Values on Request		
M102/M102D	5	0R33	10K	Derating	From 70°C to 350°C		
M103/M103D	7	0R47	22K	TCR - Low Values, IEC 115-1: 4.8.4.2, 2.2.20.2	450ppm/°C (Max)		
M104/M104D	7	0R33	10K	TCR - Mid Values & High Values	Std.:<150ppm/°C. On Request: 50ppm/°C, 20ppm/°C		
M105/M105D	9	0R47	22K	Temperature Range	-55°C to 350°C		
M106/M106D	11	0R82	22K	Climatic Category	55 / 200 / 56		
M107/M107D	17	1R5	27K	Solvent Resistance	As per IEC 115-1, Clause 4.30 (Test XA of IEC 68-2-45)		

Performance Characteristics							
Test Methods	Test Conditions	Test Limits					
Insulation Resistance	At 500V DC, IEC 115-1, Clauses-4.6, 2.2.19	10000 ΜΩ					
Dielectric Strength	2000V peak for 1 min, IEC 115-1, Clause 2.2.17	No Break Down					
Terminal Strength	Tensile Test, IEC 115-1, Clause 4.16, Test Ua ₁ , IEC 68-2-21	>50N					
Solderability	As per MIL-STD 202F, Test 208; IEC 115-1, Clause 4.17.3	95% Coverage					
Endurance at Rated Temperature	Rated Power @70°C (1.5hrs ON, 0.5hrs OFF), IEC 115-1, Clause 4.25	$\Delta R < 5\% + 0R05$					
Damp Heat Steady State	90-95% RH @40°C Ambient Temperature for 56days, IEC 115-1, Clause 4.24	$\Delta R < 5\% + 0R05$					
Resistance to Soldering Heat	10 Seconds Dip in Solder Bath at 260°C, IEC 115-1, Clause 4.18	$\Delta R < 1\% + 0R05$					
Climatic Sequence	As per IEC 115-1, Clause 4.23	$\Delta R < 5\% + 0R05$					







Dimensions (mm						
Туре	L	W	Н	l	d	
Турс	L	± 0.5	± 0.5	± 3.0	± 0.05	
M101/M101D	20.0 ± 1.0	7.0	8.0	32.0	0.80	
M102/M102D	25.0 ± 1.0	7.0	8.0	32.0	0.80	
M103/M103D	38.0 ± 1.0	7.0	8.0	32.0	0.80	
M104/M104D	25.0 ± 1.0	9.0	10.0	32.0	0.80	
M105/M105D	38.0 ± 1.0	9.0	10.0	32.0	0.80	
M106/M106D	50.0 ± 1.5	9.0	10.0	32.0	0.80	
M107/M107D	75.0 ± 2.0	9.0	10.0	32.0	0.80	

Dimensions (Inches						
Type	L	W	Н	I	d	
Туре		± 0.02	± 0.02	± 0.118	± 0.002	
M101/M101D	0.787 ± 0.04	0.276	0.315	1.260	0.0314	
M102/M102D	0.984 ± 0.04	0.276	0.315	1.260	0.0314	
M103/M103D	1.496 ± 0.04	0.276	0.315	1.260	0.0314	
M104/M104D	0.984 ± 0.04	0.354	0.394	1.260	0.0314	
M105/M105D	1.496 ± 0.04	0.354	0.394	1.260	0.0314	
M106/M106D	1.960 ± 0.06	0.354	0.394	1.260	0.0314	
M107/M107D	2.950 ± 0.08	0.354	0.394	1.260	0.0314	

To Order - Please Specify								
PEC Type.	Ohmic Value	Tolerance	Packing Style	Release Condition	Standard / Non-Std. Leads	TCR		
M101/ M101D	0.1 Ohm	2% » G 5% » J 10% » K	Bulk » B	Commercial » X	Standard » S 38mm / 1.5" » L Others » M	Standard » S Others » M Please Specify		
A Sample Part No.: M101 1K0 JBXSS / M101D 1K0 JBXSS								

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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Global Sales Co-ordinator

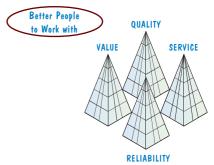
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To offer our products through regionally trusted services we have territory-wise and product-wise distribution, franchising, resale and private brand labelling arrangements. For cost-effective and enduring solutions to your needs, for tailored stocking/delivery 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.