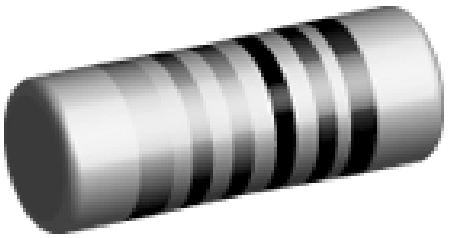
PMM0207

Vishay Draloric

Metal Film, Cylindrical Resistors



FEATURES

- Special stabilized metal film on high quality ceramic
- Very low TC and tight tolerances
- Excellent long term stability
- Suitable for precision measuring techniques and precision controls

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	RATED POWER $P_{70°C}$ [1] W	LIMITING ELEMENT VOLTAGE MAX [2] V≅	TEMPERATURE COEFFICIENT ppm/K	TOLERANCE %	RESISTANCE RANGE Ω	E-SERIES
PMM0207	0.4	250	5	0.1/0.25	100R – 100K	192
PMM0207	0.4	250	10	0.1/0.25	100R – 100K	192
PMM0207	0.4	250	15	0.1/0.25	100R – 511K	24 – 192
PMM0207	0.4	250	25	0.25/0.5	100R – 511K	24 – 192

[1] Power rating depends on the maximum temperature at the solder point, the component placement density and the substrate material

[2] Rated voltage: $\sqrt{PxR}$

- TC ≤ 100ppm/°K: temperature range is - 25°C to + 85°C
- further values and tolerances on request
- coating: green
- marking: see appropriate catalog or web page

TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	PMM0207
Rated Dissipation at 70°C	W	0.4
Limiting Element Voltage [2]	V≅	250
Insulation Voltage (1 min)	$V_{dc/ac\ peak}$	> 400
Thermal Resistance	K/W	≤ 140
Insulation Resistance	Ω	≥ 10^{10}
Category Temperature Range	°C	- 55 / + 125
Failure Rate	10^{-9} /h	< 1
Weight / 1000pcs	g	77

PACKAGING: See SMM0207

ORDERING INFORMATION

PMM0207	15	562R	.1%	BP
MODEL	TC ppm / K	RESISTANCE VALUE Ω	TOLERANCE ± . %	PACKAGING BP-Blistertape 1500 pcs

For Technical Questions contact : ff1aresistors@vishay.com

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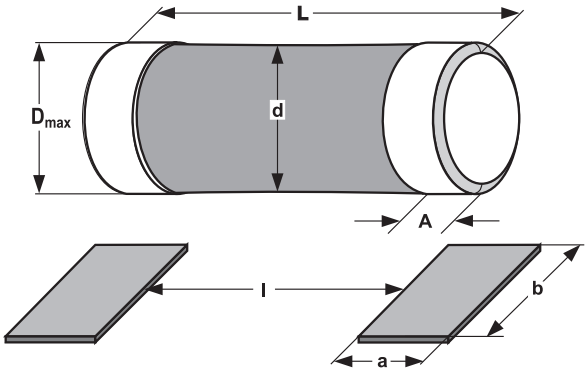
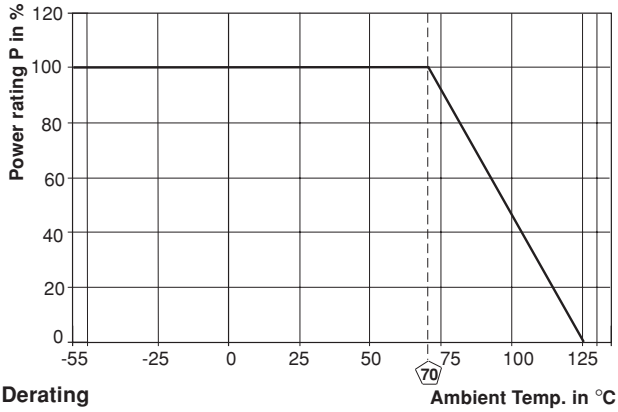
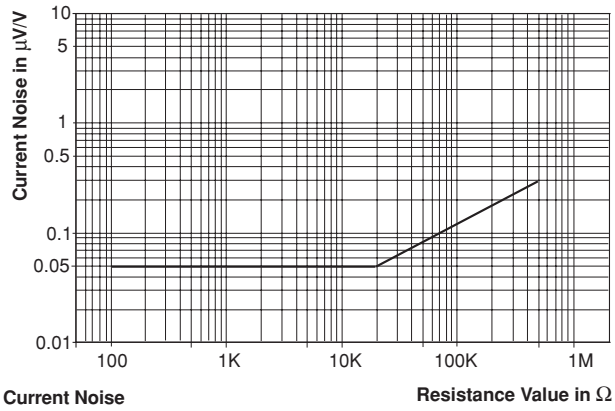


MODEL	DIMENSIONS [in millimeters]				
	D_{max}	d *	L	A_{max}	A_{min}
PMM0207	2.2	D -0.2	5.8 - 0.3	1.2	0.6

*d measured in the middle of the resistor

MODEL	SOLDER PAD DIMENSIONS [in millimeters]					
	REFLOW SOLDERING			WAVE SOLDERING		
	a	b	l	a	b	l
PMM0207	1.8	2.5	2.9	2.4	2.5	2.8





PERFORMANCE

TEST	CONDITIONS OF TEST	TEST RESULTS
Endurance Test at 70°C IEC 60115-1 4.25.1	1000 hours at 70°C, 1.5 hours "ON", 0.5 hours "OFF"	≤ ± 0.1 %
Endurance at UCT IEC 60115-1 4.25.3	1000 hours at 125 °C without load	≤ ± 0.1 %
Overload Test IEC 60115-1 4.13	Short time overload for 2 seconds 2.5 x rated voltage or ≤ 2 x limiting element voltage	≤ ± 0.02 %
Thermal Shock IEC 60115-1 4.19, IEC 60068-2-14	Rapid change between upper and lower category temperature	≤ ± 0.02 %
Damp Heat Steady State IEC 60115-1 4.24, IEC 60068-2-3	56 days at 40°C and 93% relative humidity	≤ ± 0.2 %
Resistance to Soldering Heat IEC 60115-1 4.18, IEC 60068-2-20	10 seconds at 260°C solder bath temperature	≤ ± 0.05 %

APPLICABLE SPECIFICATIONS

- CECC40000 / 40400 / 40401-803
- EN140400 / IEC 60115 – 1