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
- Pure tin termination on nickel barrier, plated on press fit steel caps
- Compatible with lead (Pb)-free and lead containing soldering processes
- Lead (Pb)-free and RoHS compliant

STANDARD ELECTRICAL SPECIFICATIONS						
MODEL	POWER RATING ¹⁾ <i>P</i> ₇₀ W	LIMITING ELEMENT VOLTAGE ²⁾ DC or AC rms 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

Note

- 1. Permissible dissipation depends on the maximum temperature at the solder point, the component placement desity and the substrate material.
- TC \leq 10 ppm/K: temperature range is 10 °C to + 85 °C
- marking: According to IEC 60062; see also datasheet "surface mount resistor marking" (document number: 20020)

2. Rated voltage: \sqrt{PxR} .

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	PMM0207		
Rated Dissipation at 70 °C	W	0.4		
Limiting Element Voltage, DC or AC rms	V	250		
Insulation Voltage (1 min), DC or AC peak	V	> 400		
Thermal Resistance ³⁾	K/W	≤ 140		
Insulation Resistance	Ω	≥ 10 ¹⁰		
Category Temperature Range	٥°	- 55 to + 125		
Failure Rate	10 ⁻⁹ /h	< 1		
Weight/1000 pcs	g	77		

Note

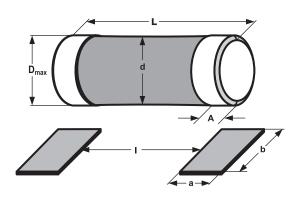
3. Based on measurements on test board acc. to EN 140400.





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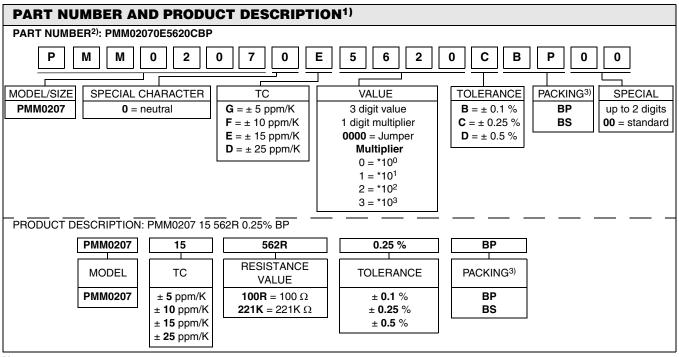
DIMENSIONS



MODEL	DIMENSIONS [in millimeters]					
MODEL	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

	SOLDER PAD DIMENSIONS [in millimeters]					
MODEL	REFLOW			WAVE SOLDERING		
	а	b	Ι	а	b	I
PMM0207	1.8	2.5	2.9	2.4	2.5	2.8



Note

1. Products can be ordered using either the PRODUCT DESCRIPTION or the PART NUMBER.

2. The PART NUMBER is shown to facilitate the introduction of a unified part numbering system. Currently, this PART NUMBER is applicable in the Americas only.

3. Please refer to table PACKING, see below.

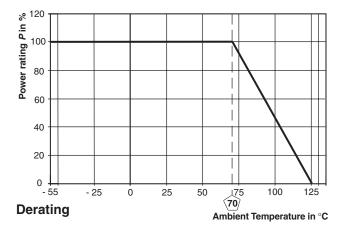
PACKING				
MODEL	BLISTER TAPE ON REEL ACC. IEC 60286-3			
	DIAMETER	PIECES/REEL	CODE	
RMM0007	180 mm/7"	1500	BP	
PMM0207	330 mm/13"	7500	BS	

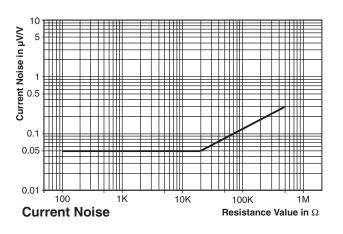
Further information about PACKING, see also datasheet "surface mount resistor packing" (document number: 20014).

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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 \leq 2 x limiting element voltage	≤ 0.02 %			
Thermal Shock IEC 60115-1, 4.19 and IEC 60068-2-14	Rapid change between upper and lower category temperature, 5 cycles	≤ 0.02 %			
Damp Heat Steady State IEC 60115-1, 4.24 and IEC 60068-2-78	56 days at 40 °C and 93 % relative humidity	≤ 0.2 %			
Resistance to Soldering Heat IEC 60115-1, 4.18 and IEC 60068-2-58	10 seconds at 260 °C solder bath temperature	≤ 0.05 %			

APPLICABLE SPECIFICATIONS

- EN 140401-803
- EN 140400
- EN 60115-1



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All product specifications and data are subject to change without notice.

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