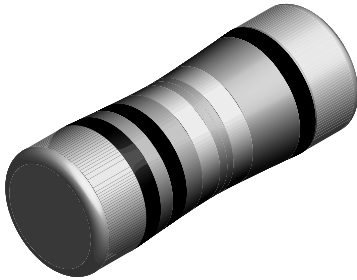


Metal Film, Cylindrical, Fusible Resistors



FEATURES

- Fusible resistor for constant current designed for overload protection
- High positive temperature coefficient
- Flame retardant coating
- Defined switch-off behaviour
- 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⁾ P_{70} W	TEMPERATURE COEFFICIENT ppm/K	TOLERANCE %	RESISTANCE RANGE Ω	E-SERIES
NMM0207SI	0.35	+ 4500 (\pm 500)	\pm 5, \pm 10, \pm 20	1R0 - 47R	12 - 24
NMM0207SI	0.35	+ 4500 (\pm 500)	\pm 10, \pm 20	R10 - R91	12

Note

1. Permissible dissipation depends on the maximum temperature at the solder point, the component placement density and the substrate material.

• Marking: additional 5th band black; According to IEC 60062; see also datasheet "surface mount resistor marking" (document number: 20020)

TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	NMM0207SI
Rated Dissipation at 70 °C	W	0.35
Minimum Overload to Fuse	W	1.5
Time to Fuse (max)	s	30
Max. applicable Voltage after Fusing	V	85
Thermal Resistance ²⁾	K/W	\leq 220
Category Temperature Range	°C	- 55 to + 125
Failure Rate	$10^{-9}/h$	< 30
Weight/1000 pcs	g	71

Note

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

PART NUMBER AND PRODUCT DESCRIPTION³⁾

PART NUMBER⁴⁾: NMM0207B01008JBP00

N	M	M	0	2	0	7	B	0	1	0	0	8	J	B	P	0	0
MODEL/SIZE	SPECIAL CHARACTER	TC	VALUE	TOLERANCE	PACKING ⁵⁾	SPECIAL											
NMM0207	B = SI Fusible	0 = neutral see data sheet for TC value	3 digit value 1 digit multiplier MULTIPLIER 7 = $\cdot 10^{-3}$ 8 = $\cdot 10^{-2}$ 9 = $\cdot 10^{-1}$	J = \pm 5 % K = \pm 10 % M = \pm 20 %	BP BS	up to 2 digits 00 = standard											

PRODUCT DESCRIPTION: NMM0207SI 1R0 5 % BP

NMM0207SI	1R0	5 %	BP
MODEL	RESISTANCE VALUE	TOLERANCE	PACKING ⁵⁾
NMM0207SI	1R0 = 1 Ω R22 = 0.22 Ω	\pm 5 % \pm 10 % \pm 20 %	BP BS

Note

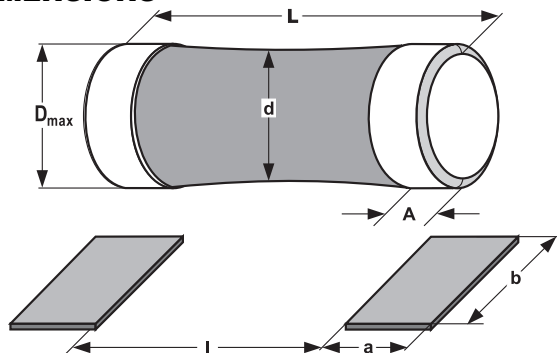
3. Products can be ordered using either the PRODUCT DESCRIPTION or the PART NUMBER.

4. 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.

5. Please refer to table PACKING, see below.



DIMENSIONS



MODEL	DIMENSIONS [in millimeters]				
	D _{max}	d*	L	A _{max}	A _{min}
NMM0207SI	2.2	D - 0.4	5.8- 0.3	1.2	0.6

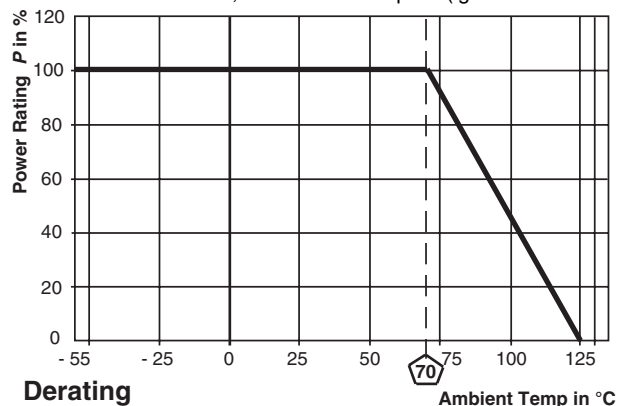
* d measured in the middle of the resistor

MODEL	SOLDER PAD DIMENSIONS [in millimeters]					
	REFLOW SOLDERING			WAVE SOLDERING		
	a	b	l	a	b	l
NMM0207SI	1.8	2.5	2.9	2.4	2.5	2.8

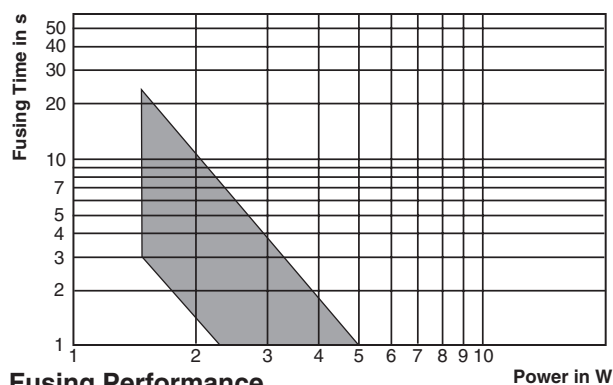
PACKING

MODEL	BLISTER TAPE ON REEL ACC. IEC 60286-3		
	DIAMETER	PIECES/REEL	CODE
NMM0207SI	180 mm/7"	1500	BP
	330 mm/13"	7500	BS

Further information on PACKING is available in document 20014).



Derating



Fusing Performance

PERFORMANCE

TEST	CONDITIONS OF TEST	REQUIREMENTS
Endurance Test at 70 °C IEC 60115-1, 4.25.1	1000 hours at 70 °C, 1.5 hours "ON", 0.5 hours "OFF"	≤ 2 %
Endurance at UCT IEC 60115-1, 4.25.3	1000 hours at 125 °C without load	≤ 2 %
Overload Test IEC 60115-1, 4.13	Short time overload for 2 seconds	≤ 2 %
Thermal Shock IEC 60115-1, 4.19 and IEC 60068-2-14	Rapid change between upper and lower category temperature, 5 cycles	≤ 2 %
Damp Heat Steady State IEC 60115-1, 4.24 and IEC 60068-2-78	56 days at 40 °C and 93 % relative humidity	≤ 2 %
Resistance to Soldering Heat IEC 60115-1, 4.18 and IEC 60068-2-58	10 seconds at 260 °C solder bath temperature	≤ 1 %



SOLDERING INFORMATION

- For reflow soldering only
- Board has to be thoroughly cleaned after soldering. All flux materials must be completely removed

APPLICABLE SPECIFICATION

- EN 60115-1



Disclaimer

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

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