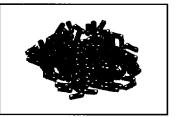
MODELS SMM0102 and SMM0204 Thin Film Chip Resistors

Cylindrical, Industrial, Precision



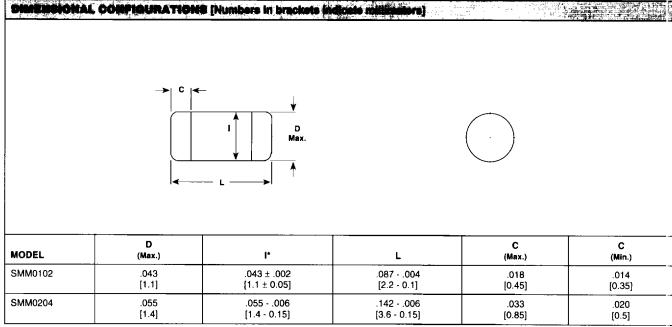


FEATURES

- Cylindrical, leadless body style (MELF)
- Automatic placement compatibility
- Reflow and wave solderable
- · Thin film resistance element
- Solderable end cap construction
- · Color band marking
- 8mm tape width reel or bulk packaging
- Maximum operating voltage is 100 V for SMM0102 and 200 V for SMM0204
- Power rating at + 70°C is 0.20 W for SMM0102 and 0.25 W for SMM0204

	TEMPERATURE	RESISTANCE RANGE	DECADE	
MODEL	COEFFICIENT	(Ohms)	VALUES	TOLERANCE
SMM0102	± 50PPM/°C	10 - 1M	E24 - E96	± 1%
SMM0102	± 25PPM/°C	100 - 100k	E24 - E96	± 0.1%
SMM0204	± 15PPM/°C	43 - 221k 22 - 221k 10 - 221k	E24 - E192 E24 - E192 E24 - E192	± 0.1% ± 0.25% ± 0.5%
SMM0204	± 25PPM/°C	43 - 511k 22 - 511k 10 - 1M	E24 - E192 E24 - E192 E24 - E192	± 0.1% ± 0.25% ± 0.5%
SMM0204	± 50PPM/°C	10 - 1M 1 - 10M	E24 - E192 E24 - E96	± 0.5% ± 1%
SMM0204	± 100PPM/°C	.51 - 10M .22 - 10M	E24 E24	± 2% ± 5%
	± 50PPM/°C	10 - 470	E96	± 1%

^{*} HF = High Frequency version.



^{*} Measured in the middle of the resistor.

MODELS SMM0102 and SMM0204

ENVIRONMENTAL PERFORMANCE				
TEST	MAX. ∆R (Typical Test Lots)			
Thermal Shock	± 0.10% Max. + .05Ω			
Short Time Overload	± 0.10% Max. + .05Ω			
Resistance to Bonding Exposure	± 0.10% Max. + .05Ω			
56 Day Damp Heat	± 0.50% Max. + .05Ω			
Life 1,000 Hours @ + 70°C	± 0.25% Max. + .05Ω			

PART MARKING

Depending on the tolerance, the marking consists of a four band (\pm 5% and \pm 2%) or five band (\pm 1% and \pm 0.1%) color code.

For SMM0204 only: The color of the resistor body identifies the TC:

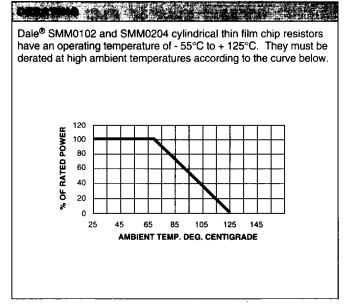
Bright green = \pm 100PPM/°C and \pm 50PPM/°C.

Pink = \pm 25PPM/°C.

Violet = \pm 15PPM/°C.

The HF type has a beige coating.

Zero-ohm resistors are bright green with a black band.



HOW TO ORDER

SMM MODEL **0204** SIZE ±25PPM/°C
TEMPERATURE
COEFFICIENT

าก การสอบัญ รัฐสิทิกส์ใหญ่และ ในที่สิ้นที่ให้ผู้ใช้

332k VALUE ± 0.5% TOLERANCE PACKAGING

Manufactured in Germany

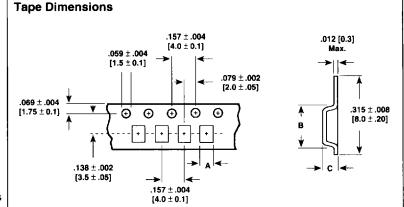
TAPE AND REEL SPECIFICATIONS [Numbers in brackets indicate millimeters



SMM0102 resistors are packed in quantities of 3,000 pieces and SMM0204 resistors are packed in quantities of 2,500 pieces in 180mm diameter reels. Larger reels of 10,000 pieces are available on request.

SMM0204 resistors are also available bulk packed in plastic boxes with styrofoam overpacking, in quantities of 1,000 or 5,000 pieces.

SMM0204 in TC's of \pm 15PPM/°C or \pm 25PPM/°C are also available in quantities of 1000 pieces on 180mm diameter reels.



MODEL	A	В	С
SMM0102	.047 ± .004	.118 ± .004	.057 ± .004
	[1.2 ± 0.1]	[3.0 ± 0.1]	[1.45 ± 0.1]
SMM0204	.067 ± .004	.157 ± .004	.069 ± .004
	[1.7 ± 0.1]	[4.0 ± 0.1]	[1.75 ± 0.1]