

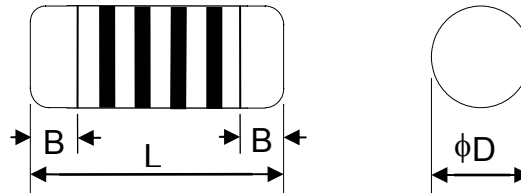


SMC-SERIES

PRECISION MELF RESISTOR

PRECISION RESISTIVE PRODUCTS, INC.
 202 MACK LANE, MEDIAPOLIS, IA 52637
 (319)394-9131 FAX (319)394-9280
 E-Mail info@prpinc.com
 PRP HOME PAGE <http://www.prpinc.com>

- Thin Film Technology
- Wide Ohmic Range 0.1R – 10M
- Precision Tolerances 0.1% to 5%
- Standard EIA Values E-24, E-96 & E-192
- Multi-Layer Conformal Coating
- Tin Plated Termination on Nickel barrier
- Standard Metric Sizes 0204 & 0207
- Applications: Medical & Industrial, Test and Measurement, Military, Automotive, Telecommunication
- Lead Free & RoHS Compliant
- TCR ± 10 to ± 100 ppm/ $^{\circ}$ C
- Packaging is Tape & Reel
 3000 pcs – SMC0204
 2000 pcs – SMC0207



Dimensions (mm)

Style	L	ϕ D	B
SMC0204	3.45 \pm 0.1	1.35 \pm 0.1	0.6
SMC0207	5.9 \pm 0.1	2.2 \pm 0.1	1.2

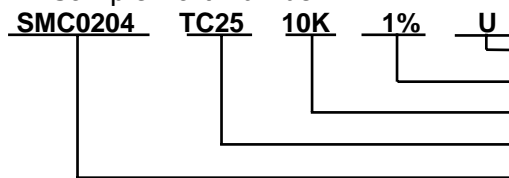
Specifications

Style	Power Rating @ 70 $^{\circ}$ C		Working Voltage (max.)	Resistance Range	Resistance Tolerance @ 25 $^{\circ}$ C	T.C.R. PPM/ $^{\circ}$ C
	W	V				
SMC0204	.25 W	V	200V 300V	0.1 Ω ~ 10M Ω	1%, 5%	50, 100
	.5W	U		1 Ω ~ 1M Ω	0.5%, 1%, 5%	50
				50 Ω ~ 200K Ω	0.1%, 0.25%, 0.5%, 1%	10, 15, 25, 50
SMC0207	.5 W	U	300V 500V	0.1 Ω ~ 10M Ω	1%, 5%	50, 100
	1W	T		1 Ω ~ 1M Ω	0.5%, 1%, 5%	50
				50 Ω ~ 200K Ω	0.1%, 0.25%, 0.5%, 1%	10, 15, 25, 50
				200K Ω ~ 300K Ω		15, 25, 50

Operating Temperature Range -55° C to $+155^{\circ}$ C

How to Order

Sample Part Number



Power Rating
 Resistance Tolerance
 Resistance Value
 Temperature Coefficient
 Style



DEDICATION TO EXCELLENCE

Performance Specifications

Test Item		Allowable Limits			Test Method
		0.25%	0.50%	0.50%	
Stability for Product Types	SMC0204	50Ω ~ 220KΩ	10Ω ~ 50Ω	>220KΩ	
	SMC0207	50Ω ~ 1MΩ	10Ω ~ 50Ω	>1MΩ	
Short Time Overload		ΔR ±0.1% No visible damage			JIS-C-5202-5.5 RCWV*2.5 or Max Overload Voltage, 5sec.
Temperature Cycle		ΔR ±0.1%	ΔR ±0.25%	ΔR ±0.1%	MIL-STD-202F Method 107G -55°C~150°C, 100 cycles
		No visible damage			
Load Life		ΔR ±0.25%	ΔR ±0.25%	ΔR ±0.50%	MIL-STD-202F Method 108A RCWV, 70°C, 1.5 hours ON, 0.5 hours OFF, total 1000~1048 hours
Humidity		ΔR ±0.25%	ΔR ±0.50%	ΔR ±0.50%	MIL-STD-202F Method 103B 40°C, 90~95% RH, RCWV 1.5 hours ON, 0.5 hours OFF, total 1000~1048 hours
		No visible damage			
Resistance to Dry Heat		ΔR ±0.50%	ΔR ±1.00%	ΔR ±1.00%	JIS-C-5202-7.2 96 hours @ +155°C without load
Low Temperature Operation		ΔR ±0.25%	ΔR ±0.50%	ΔR ±0.50%	JIS-C-5202-7.1 1 hour, -65°C, followed by 45 minutes of RCWV
		No visible damage			
Solderability		95% minimum coverage			MIL-STD-202F Method 208H 245°C ±5°C, 2 ±0.5 sec.
Resistance to Soldering Heat		ΔR ±0.10%	ΔR ±0.25%	ΔR ±0.10%	MIL-STD-202F Method 210E 260°C ±5°C, 10 ±1 sec.
		No visible damage			