

Carbon Film Leadless Fixed Resistors

Performance Specification

Temperature Coefficient	≥ 1/4W: ≤ 10KΩ = 0~350PPM/°C 11KΩ ~ 150KΩ = 0-600PPM/°C 160KΩ ~ 2.2MΩ = 0-1000PPM/°C	1/8W: ≤ 1KΩ = 0-350PPM/°C 1.1KΩ ~ 47KΩ = 0-600PPM/°C 51KΩ ~ 470KΩ = 0-1000PPM/°C 51KΩ ~ 1MΩ = 0-1500PPM/°C
Short Time Overload	±(1%+0.05Ω) Max, with no evidence of mechanical damage.	
Resistance to Soldering	±(1%+0.05Ω) Max, with no evidence of mechanical damage.	
Pulse Overload	±(1%+0.05Ω) Max, with no evidence of mechanical damage.	
Load Life	±(3%+0.05Ω) Max, with no evidence of mechanical damage.	
Load Life in Humidity	±(5%+0.05Ω) Max, with no evidence of mechanical damage.	
Solderability	95% Coverage Min.	

Ordering Procedure: Ex.: MELF Carbon Film type 0204 1/4W-S +/-5% 75Ω Tape/Reel 3000

M C 2 4 S 4 J 0 7 5 0 T 3 0

Type:
MC24 = Carbon Film 0204
MC27 = Carbon Film 0207
MC39 = Carbon Film 0309

Wattage:
Normal size:
W8 = 1/8W
W4 = 1/4W
W2 = 1/2W
Small size:
S4 = 1/4W-S
S2 = 1/2W-S
1S = 1W-S
Extra Small size:
1U = 1W-SS
2U = 2W-SS

Resistance Value:
• E-24 series:
1st digit is "0"
2nd & 3rd digits are the significant figures of the resistance
4th indicates the number of zeros:
"J" ~ 0.1, "K" ~ 0.01
Ex.: 4.7Ω ~ 47J, 4.7KΩ ~ 472

Packing Type:
T = Tape/Reel

Tolerance:
G = ±2%
J = ±5%

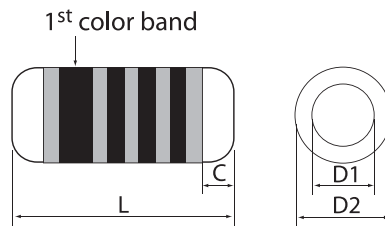
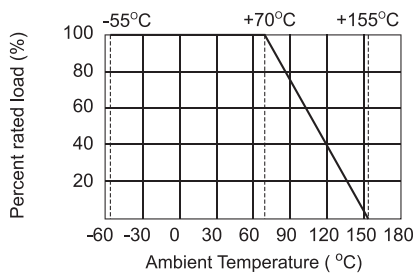
Packing Qty:
2 = 2,000 pcs.
3 = 3,000 pcs.
B = 2,500 pcs.

Additional Information:
0 = NIL

Features

- SMD carbon resistor
- High terminal strength
- Excellent solderability
- Suitable for Flow, Reflow and hand soldering

Derating Curve



Part No.	Power Rating at 70°C	Dimension (mm)				Resistance Range	Max. Working Voltage	Max. Overload Voltage	Std Packing (Reel)
		L±0.2	C(Min)	D1	D2(Max)				
Normal size									
MC24W8	1/8W (0.125W)	3.5	0.5	1.4 ± 0.15	1.55	1Ω ~ 1MΩ	200V	400V	3,000
MC27W4	1/4W (0.25W)	5.9	0.5	2.2 ± 0.2	2.4	1Ω ~ 1MΩ	300V	600V	2,000
MC39W2	1/2W (0.50W)	8.5	0.5	3.2 ± 0.2	3.4	1Ω ~ 1MΩ	350V	700V	2,500
Small size									
MC24S4	1/4W (0.25W)	3.5	0.5	1.4 ± 0.15	1.55	1Ω ~ 1MΩ	250V	500V	3,000
MC27S2	1/2W (0.50W)	5.9	0.5	2.2 ± 0.2	2.4	1Ω ~ 1MΩ	300V	600V	2,000
MC271U	1W	5.9	0.5	2.2 ± 0.2	2.4	1Ω ~ 1MΩ	350V	700V	2,000
MC391S	1W	8.5	0.5	3.2 ± 0.2	3.4	1Ω ~ 1MΩ	350V	700V	2,500
MC392U	2W	8.5	0.5	3.2 ± 0.2	3.4	1Ω ~ 1MΩ	350V	700V	2,500

