

Metal Film Leadless Fixed Resistors

Performance Specification

Temperature Coefficient	±10, ±15, ±25, ±50, ±100, ±200 PPM/°C
Short Time Overload	± (0.5%+0.05Ω) Max, with no evidence of mechanical damage.
Resistance to Soldering	± (0.5%+0.05Ω) Max, with no evidence of mechanical damage.
Pulse Overload	± (1%+0.05Ω) Max, with no evidence of mechanical damage.
Load Life	± (2%+0.05Ω) Max, with no evidence of mechanical damage.
Load Life in Humidity	± (2%+0.05Ω) Max, with no evidence of mechanical damage.
Solderability	95% Coverage Min.

Ordering Procedure: Ex.: MELF Metal Film type 0204 1/4W-S, +/- 0.1% 15PPM 100Ω Tape/Reel 3000

M	2	4	S	4	B	B	1	0	0	0	T	3	0		
Type: M24 = Metal Film 0204 M27 = Metal Film 0207 M39 = Metal 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 - E-96 series: 1st to 3rd digits are the significant figures of the resistance and the 4th digit indicates the number of zeros. Ex.: 1.33KΩ = 1331			Packing Type: T = Tape/Reel			Packing Qty: 2 = 2,000 pcs. 3 = 3,000 pcs. B = 2,500 pcs.		Additional Information: 0 = NIL	
			Tolerance: B = ±0.1% C = ±0.25% D = ±0.5% F = ±1% G = ±2% J = ±5%			A = 10PPM B = 15PPM C = 25PPM F = 50PPM G = 100PPM J = 200PPM									

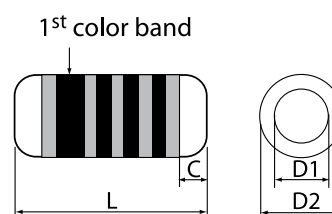
atures

- SMD metal film resistor

Features

- SMD metal film resistor
- High terminal strength
- High stability and Low temperature coefficient
- Excellent solderability
- Suitable for Flow, Reflow and hand soldering

Part No.	Power Rating at 70°C	Dimension (mm)			
		D1	D2(Max)	L±0.2	C(Min)
Normal size					
M24W8	1/8W (0.125W)	1.4 ± 0.15	1.55	3.5	0.5
M27W4	1/4W (0.25W)	2.2 ± 0.2	2.4	5.9	0.5
M39W2	1/2W (0.50W)	3.2 ± 0.2	3.4	8.5	0.5
Small size					
M24S4	1/4W (0.25W)	1.4 ± 0.15	1.55	3.5	0.5
M27S2	1/2W (0.50W)	2.2 ± 0.2	2.4	5.9	0.5
M271U	1W	2.2 ± 0.2	2.4	5.9	0.5
M391S	1W	3.2 ± 0.2	3.4	8.5	0.5
M392U	2W	3.2 ± 0.2	3.4	8.5	0.5

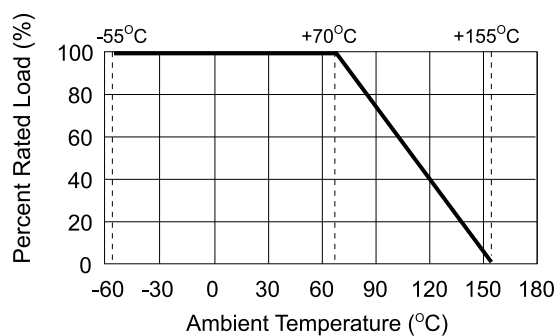


Metal Film Leadless Fixed Resistors

General Specification

Part No.	Power Rating at 70°C	Tolerance %	T.C.R.	Resistance Range	Max. Working Voltage	Max. Overload Voltage	Std Packing (Reel)
Normal size							
M24W8	1/8W (0.125W)	± 5%	± 200PPM/°C	10Ω ~ 1MΩ	150	300	3,000
		± 2%	± 100PPM/°C	10Ω ~ 1MΩ			
		± 1%	± 50PPM/°C	10Ω ~ 1MΩ			
M27W4	1/4W (0.25W)	± 5%	± 200PPM/°C	1Ω ~ 1MΩ	250	500	2,000
		± 2%	± 100PPM/°C	2.2Ω ~ 1MΩ			
		± 1%	± 50PPM/°C	10Ω ~ 1MΩ			
M39W2	1/2W (0.50W)	± 5%	± 200PPM/°C	1Ω ~ 1MΩ	350	700	2,500
		± 2%	± 100PPM/°C	2.2Ω ~ 1MΩ			
		± 1%	± 50PPM/°C	51.1Ω ~ 1MΩ			
Small size							
M24S4	1/4W (0.25W)	± 5%	± 100PPM/°C	10Ω ~ 5.1MΩ	200	400	3,000
		± 5%	± 200PPM/°C	10Ω ~ 5.1MΩ			
		± 2%	± 100PPM/°C	10Ω ~ 1MΩ			
		± 1%	± 50PPM/°C	10Ω ~ 1MΩ			
M27S2	1/2W (0.50W)	± 5%	± 200PPM/°C	1Ω ~ 1MΩ	250	500	2,000
		± 2%	± 100PPM/°C	2.2Ω ~ 1MΩ			
		± 1%	± 50PPM/°C	10Ω ~ 1MΩ			
M271U	1W	± 5%	± 200PPM/°C	1Ω ~ 1MΩ	350	700	2,000
		± 2%	± 100PPM/°C	2.2Ω ~ 1MΩ			
		± 1%	± 50PPM/°C	10Ω ~ 1MΩ			
M391S	1W	± 5%	± 200PPM/°C	1Ω ~ 1MΩ	350	700	2,500
		± 2%	± 100PPM/°C	2.2Ω ~ 1MΩ			
		± 1%	± 50PPM/°C	51.1Ω ~ 1MΩ			
M392U	2W	± 5%	± 200PPM/°C	1Ω ~ 1MΩ	350	700	2,500
		± 2%	± 100PPM/°C	2.2Ω ~ 1MΩ			
		± 1%	± 50PPM/°C	10Ω ~ 1MΩ			

Derating Curve



Metal Film Leadless Fixed Resistors

Special Tolerance & T.C.R

Part No.	Power Rating at 70°C	Tolerance %	T.C.R.	Resistance Range	Max. Working Voltage	Max. Overload Voltage	Std Packing (Reel)
Normal size							
M24W8	1/8W (0.125W)	± 0.1%	±10PPM/°C	100Ω ~ 20KΩ	150	300	3,000
		± 0.1%	±15PPM/°C	100Ω ~ 100KΩ			
		±0.25%	±25PPM/°C	51.1Ω ~ 330KΩ			
		± 0.5%	±50PPM/°C	10Ω ~ 1MΩ			
M27W4	1/4W (0.25W)	± 0.1%	±10PPM/°C	100Ω ~ 20KΩ	250	500	2,000
		± 0.1%	±15PPM/°C	100Ω ~ 100KΩ			
		±0.25%	±25PPM/°C	51.1Ω ~ 330KΩ			
		±0.5%	±50PPM/°C	10Ω ~ 1MΩ			
M39W2	1/2W (0.50W)	±0.1%	±15PPM/°C	100Ω ~ 100KΩ	350	700	2,500
		±0.25%	±25PPM/°C	51.1Ω ~ 511KΩ			
		±0.5%	±50PPM/°C	10Ω ~ 1MΩ			
Small size							
M24S4	1/4W (0.25W)	±0.1%	±10PPM/°C	100Ω ~ 20KΩ	200	400	3,000
		±0.1%	±15PPM/°C	100Ω ~ 100KΩ			
		±0.25%	±25PPM/°C	51.1Ω ~ 330KΩ			
		±0.5%	±50PPM/°C	10Ω ~ 1MΩ			
M27S2	1/2W (0.50W)	±0.1%	±10PPM/°C	100Ω ~ 20KΩ	250	500	2,000
		±0.1%	±15PPM/°C	100Ω ~ 100KΩ			
		±0.25%	±25PPM/°C	51.1Ω ~ 330KΩ			
		±0.5%	±50PPM/°C	10Ω ~ 1MΩ			
M271U	1W	±0.1%	±10PPM/°C	100Ω ~ 20KΩ	350	700	2,000
		±0.1%	±15PPM/°C	100Ω ~ 100KΩ			
		±0.25%	±25PPM/°C	51.1Ω ~ 330KΩ			
		±0.5%	±50PPM/°C	10Ω ~ 1MΩ			