

SURFACE MOUNT WIREWOUND RESISTORS

MELF AND GULLWING DESIGNS, 1/2 TO 5 WATT

MW SERIES

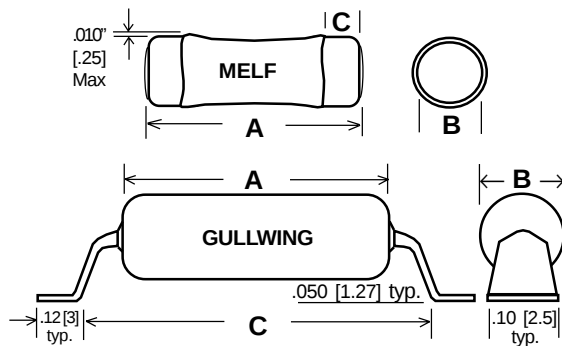


Term. W is
RoHS
compliant
& 260°C
compatible

- Inherent wirewound stability and overload capability
- Resistance range: 0.005Ω to 50KΩ
- Excellent T.C. stability (available to ±5ppm/°C)
- Standard tolerance: ±1% or ±5% (available to 0.01%)
- Available on exclusive **SWIFT™** delivery program!

OPTIONS

- **Option X:** Non-inductive
- **Option T:** PTC Temp. Sensitive (+80 to +6000ppm/°C)
- **Option P:** Increased Pulse Capability
- **Option F:** Flameproof (UL94V-0)
- **Option ER:** 100 Hour Burn-In
- Numerous options avail.: special marking, matched sets, Hi-Rel screening, low thermal EMF, etc. Consult factory



RCD Series MW provide a cost-effective solution for demanding applications. Advantages include superior surge capability, improved temperature stability, moisture resistance, noise, and a significant space and cost savings over molded models. MW3 & MW5 feature compliant gullwing terminals, which act as standoffs to reduce PCB temperature and help minimize TCE stress (utilize compliant terminals in applications with wide temp. gradients).

TYPICAL PERFORMANCE CHARACTERISTICS

Load Life (1000 hours)	±0.5%
Moisture Resistance	±0.2%
Temperature Cycling	±0.2%
Short Time Overload	5x rated W, 5Sec
Resis. to Solder Heat (260°C, 5S)	±0.1%
Thermal Shock (gullwing only)	±0.2%
Solderability (<.032" from PCB)	95% coverage
Inductance: standard Inductance: Option X ≤50Ω Inductance: Option X >50Ω	1uH to 10uH typ. 0.2uH max* 0.37uH max*
Operating Temperature Range	-55°C to +155°C (275°C avail.)

* specify Opt.75 for induc levels 50% that of Opt.X, or Opt.76 for 33% that of Opt.X

RCD Type	Package Style	Wattage @ 25°C	Wattage Derating above 25°C	Maximum Voltage ¹	Dielectric Strength ²	Resistance Range ²	DIMENSIONS Inch [mm]		
							A	B	C
MW1/2	MELF	0.5W	3.85mW/°C	30V	200V	0.5Ω - 500Ω	.180 ±.02 [4.57 ±.5]	.060 ±.008 [1.52 ±.2]	.020 [.5] Min.
MW1	MELF	1W	7.7mW/°C	40V	250V	0.05Ω - 1K	.250 ±.02 [6.35 ±.5]	.085 ±.008 [2.16 ±.2]	.020 [.5] Min.
MW2	MELF	2W	15.4mW/°C	60V	250V	0.05Ω - 2K	.350 ±.02 [8.89 ±.5]	.125 ±.008 [3.18 ±.2]	.024 [.6] Min.
MW25	MELF	2.5W	19.2mW/°C	100V	300V	0.05Ω - 5K	.415 ±.02 [10.54 ±.5]	.144 ±.008 [3.66 ±.2]	.032 [.8] Min.
MW35	MELF	3W	23.1mW/°C	200V	400V	0.05Ω - 10K	.500 ±.024 [12.7 ±.6]	.169 ±.010 [4.3 ±.25]	.040 [1] Min.
MW3	GULLWING	3W	23.1mW/°C	200V	500V	0.005Ω - 25K	.485 ±.04 [12.3 ±.1]	.165 ±.030 [4.19 ±.76]	.650 ±.04 [16.5 ±.1]
MW5	GULLWING	5W	37mW/°C	250V	500V	0.005Ω - 50K	.530 ±.06 [13.5 ±.15]	.180 ±.035 [4.57 ±.89]	.715 ±.04 [18.2 ±.1]

¹Voltage determined by E = √PR, E not to exceed maximum voltage rating. Increased ratings available. Multiply by 0.7 for Opt. X. ² Increased range available

SPECIFICATIONS

Resistance Range	Available Tolerances	Temp. Coef. (ppm/°C)	
		Standard	Optional
R005-R0099	1% to 10%	900	600, 300
R010-R049	0.5% to 10%	600	300, 200
R050-R099	0.1% to 10%	300	200, 100, 50
R100-R990	0.05% to 10%	100	50, 30, 20
1R00-9R90	0.02% to 10%	50	30, 20, 10
10R0 and above	0.01% to 10%	30	20, 10, 5

P/N DESIGNATION:

MW2 **- 1001 - F T W**

RCD Type _____

Options: X, T, P, F, ER (leave blank for std)

Resis.Code 0.01%-1%: 3 signif. figures & multiplier, (R010=0.01Ω, 1R00=1Ω, 10R0=10Ω, 1000=100Ω, 1001=1K, etc.)

Resis.Code 2%-10%: 2 signif. figures & multiplier, (R01=0.01Ω, 1R0=1Ω, 100=10Ω, 101=100Ω, 102=1K, 103=10K, etc.)

Tolerance Code: K=10%, J=5%, H=3%, G=2%, F=1%, D=0.5%, C=0.25%, B=0.1%, A=0.05%, Q=0.02%, T=0.01%

Packaging: B = Bulk, T = Tape & Reel (melf only)

Temp. Coef. (leave blank for standard): 5 = 5ppm, 10 = 10ppm; 100ppm & above, use 3 digit code: 101=100ppm, 201=200ppm, etc.

Termination: W= Lead-free, Q= Tin/Lead (leave blank if either is acceptable, in which case RCD will select based on lowest price and quickest delivery)