Low Ohmic Wire Resistors

Alloy-Wire Type

Normal Style [MCW Series]

FEATURES

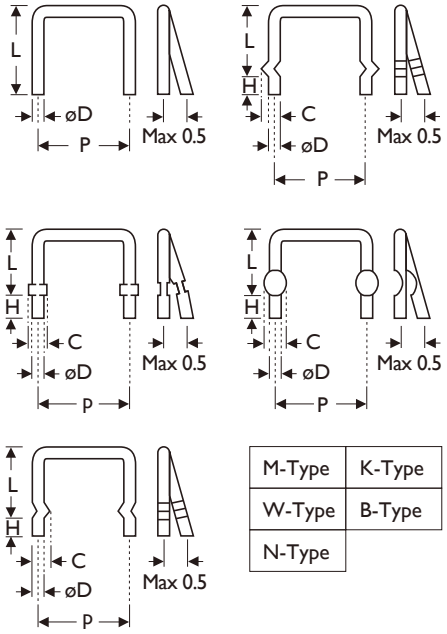
Material	Manganese-copper, Nickel-copper, others upon request
Resistance Tolerance	±1%, ±2%, ±3%, ±5%
T.C.R.	±50ppm/°C, ±100ppm/°C, ±200ppm/°C

INTRODUCTION

- The Low Ohmic Alloy-Wire Resistors are suitable for high power current detection, it is non-inductive type
- Low Ohmic Wire Resistors meet EU-RoHS requirements

DIMENSIONS

Unit: mm



M-Type	K-Type
W-Type	B-Type
N-Type	

STYLE	DIMENSION			
Normal	øD	C	H	P, L
MCW-06	0.6±0.05	0.9±0.2	3.0±0.3	P & L could be designed by customer's requirement
MCW-08	0.8±0.05	1.2±0.2	3.0±0.3	
MCW-10	1.0±0.05	1.5±0.2	3.0±0.3	
MCW-12	1.2±0.05	1.8±0.2	3.0±0.3	
MCW-14	1.4±0.05	2.1±0.2	3.0±0.3	
MCW-16	1.6±0.05	2.4±0.2	3.0±0.3	
MCW-18	1.8±0.05	2.7±0.2	3.0±0.3	
MCW-20	2.0±0.05	3.0±0.2	3.0±0.3	
MCW-26	2.6±0.05	3.9±0.2	3.0±0.3	

Note:

ELECTRICAL CHARACTERISTICS

STYLE	MCW-06	MCW-08	MCW-10	MCW-12	MCW-14	MCW-16	MCW-18	MCW-20	MCW-26
Maximum Current Rating	3A	4.5A	5.5A	7.0A	8.0A	9.5A	11A	12A	18A
Resistance Range	0.0014Ω - 0.078Ω								
Operating Temp. Range	-40°C to +170°C								
Temperature Coefficient	±50ppm/°C, ±100ppm/°C, ±200ppm/°C								

Note: Below or over this resistance value is available on request

ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD		APPRAISE
Short Time Overload	IEC 60115-1 4.13	2.5 times RCWV for 5 sec. (Not more than maximum Overload Voltage)	±2%
Temperature Coefficient	IEC 60115-1 4.8	Between -40°C to +125°C	By type
Solderability	IEC 60115-1 4.17	245±5°C for 3±0.5 Sec.	95% Min. coverage
Damp Heat Steady State	IEC 60115-1 4.24	40±2°C, 90-95% RH for 56 days, loaded with 0.1 times RCWV	±2.0%
Endurance at 70°C	IEC 60115-1 4.25	70±2°C at RCWV (or Umax., Whichever less) for 1,000 Hr. (1.5Hr.on, 0.5Hr. Off)	±3.0%
Temperature Cycling	IEC 60115-1 4.19	-55°C ⇨ Room Temp. ⇨ +155°C ⇨ Room Temp. (5 cycles)	±1.0%
Resistance to Soldering Heat	IEC 60115-1 4.18		±1.0%

Note: RCWV (Rated Continuous Working Voltage) = $\sqrt{\text{Power Rating} \times \text{Resistance Value}}$ or Max. working voltage listed above, whichever less.