

Low Ohmic Wire Resistors

Alloy-Wire Type

Normal Style [MCW Series]



INTRODUCTION

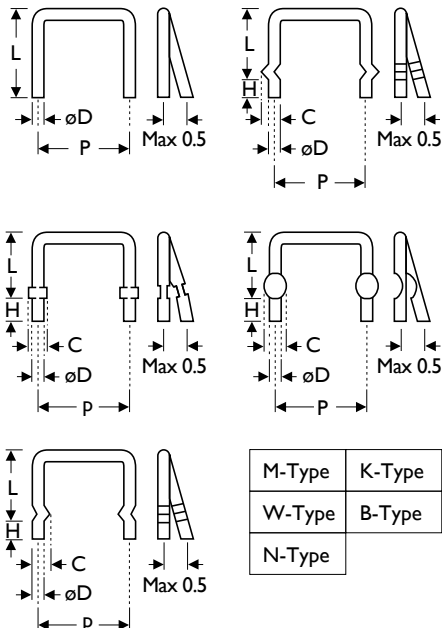
- The Low Ohmic Alloy-Wire Resistors are suitable for high power current detection, it is non-inductive type
- Low Ohmic Wire Resistors meet EU-RoHS requirements

FEATURES

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

DIMENSIONS

Unit: mm



STYLE	DIMENSION			
	øD	C	H	P, L
MCW-06	0.6±0.02	0.9±0.1	3.0±0.5	P & L could be designed by customer's requirement
MCW-08	0.8±0.02	1.1±0.1	3.0±0.5	
MCW-10	1.0±0.02	1.3±0.1	3.0±0.5	
MCW-12	1.2±0.02	1.5±0.1	3.0±0.5	
MCW-14	1.4±0.02	1.7±0.1	3.0±0.5	
MCW-16	1.6±0.02	1.9±0.2	3.0±0.5	
MCW-18	1.8±0.02	2.2±0.2	3.0±0.5	
MCW-20	2.0±0.02	2.5±0.2	3.0±0.5	
MCW-26	2.6±0.02	3.2±0.2	3.0±0.5	

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	0.0014 Ω - 0.078 Ω								
Operating Temp. Range	-55°C to +125°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.	±2%
Temperature Coefficient	IEC 60115-1 4.8	-55°C to +125°C	By type
Solderability	IEC 60115-1 4.17	235±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 for 1,000 Hr: (1.5 Hr: on, 0.5 Hr: 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	260±3°C for 10±1 Sec., immersed to a point 3±0.5mm from the body	±1.0%

Note: Rated Continuous Working Voltage (RCWV) = $\sqrt{\text{Power Rating} \times \text{Resistance Value}}$