

Low Value Wire Resistor - LW Series



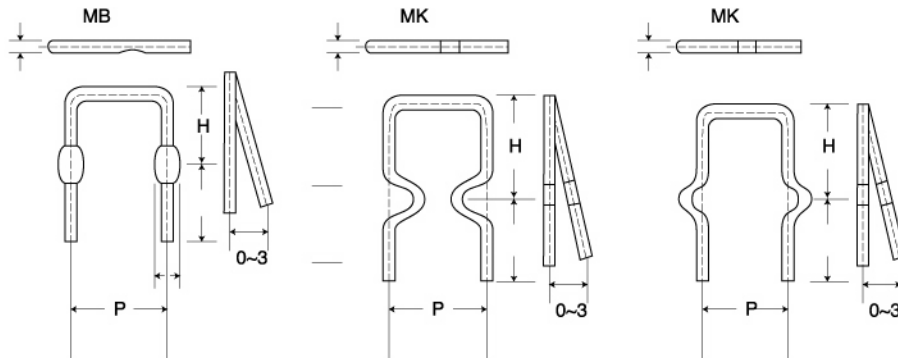
INTRODUCTION

- Current detective for power supply circuit.
- The resistive element of a CMW alloys.
- LW Series are super low resistance (5mΩ) and suitable for high power AC/DC detection of power supply circuit. All low ohmic power type and non-inductive type and custom-made products.

FEATURES

- Ideal for all types of current sensing.
- Low inductance.
- Easy soldering.

Forming Type



STYLE	LW05	LW06	LW08	LW10	LW12	LW14
P		5 ± 2	10 ± 0.2	15 ± 0.2	10 ± 0.2	15 ± 0.2
∅D	0.5 ± 0.02	0.6 ± 0.02	0.8 ± 0.03	1.0 ± 0.03	1.2 ± 0.04	1.4 ± 0.04
t	0.7 ± 0.1	0.9 ± 0.1	1.1 ± 0.1	1.3 ± 0.1	1.5 ± 0.1	1.7 ± 0.1

Packing units : Bulk, 1000pcs

* The Height (H) will be changed base on different resistance and pitch (P)

ELECTRICAL CHARACTERISTICS :

STYLE	LW05	LW06	LW08	LW10	LW12	LW14
Power Rating at 70°C	1/10W	1/8W	1/4W	1/2W	3/4W	1W
Operating Temp. Range	-55°C ~ +125°C					
Derated to o Load at	+125°C					
Resistance Range	0.005Ω ~ ± 0.03Ω					
Temperature Coefficient	± 100ppm/°C					
Resistance Tolerance	± 1% , ± 2% , ± 5%					

* Standard resistance is 0.005Ω ~ 0.03Ω, below or over this resistance on request.

ENVIRONMENTAL CHARACTERISTICS :

PERFORMANCE TEST	TEST METHOD	APPRAISE
Temperature Coefficient	MIL-STD-202F Method 304 -5°C ~ +125°C	± 100ppm/°C
Thermal Shock	MIL-STD-202F Method 107 5 cycles, -55°C ~ +125°C	± 0.5%
Low Temperature Operation	MIL-R-55342D, Para4.7.4 One hour at -55°C followed by 45 minutes RCWV	± 0.5%
Short Time Overload	MIL-R-55342D, Para4.7.5 2.5 times RCWV for 5 seconds	± 0.5%
Resistance to Soldering Heat	MIL-R-55342D, Para4.7.7 Soldered to test board at 260°C for 10 seconds	± 0.5%
Moisture Resistance	MIL-STD-202F, Method 106 10 cycles, Total 240 hours	± 0.5%
Life	MIL-STD-202F, Method 108A 1000 hours at 70°C RCW intermittent	± 0.5%
Solderability	MIL-STD-202F, Method 208 230°C for seconds	95%min. coverage