

SINLOON®

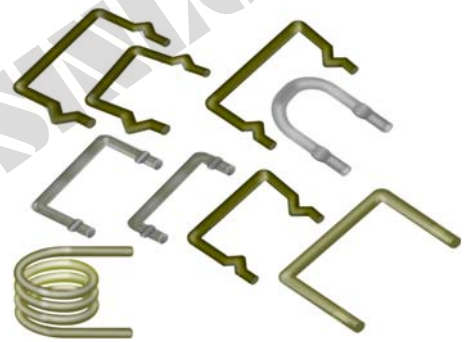
分流電阻(旁路電阻)
Low ohm & High Current: 2A~50A

Type: MSR Series
Shunt Resistor

Feature (特性)

- ◆ Low ohm (1m ~ 200mΩ) High Current (2A ~ 50A).
低阻值(1m~200mΩ), 大電流 (2A~50A).
- ◆ The MSR Series is suitable for high power current detection.
MSR 系列適用於高功率的電流檢測.
- ◆ Pitches and heights adjustable according to mounting conditions.
可依使用要求兩端間距和高度可調制
- ◆ All custom-made products Easy soldering.
所有產品易於焊錫
- ◆ Products with lead-free terminations meet EU RoHS requirement.
產品符合歐盟RoHS要求環保條件.

Figure



Ordering Information:

Example MSR04SnU1010F1m

Code	Φd: Dimension			Material*	Case	Pitch (P)	Height (H)	Tolerance	Resistance
MSR	04=0.4mm	11=1.1mm	18=1.8mm	No	U-type	10=10mm	10=10mm	F=±1%	m5=R0005
	06=0.6mm	12=1.2mm	20=2.0mm	Sn	UA-type	15=15mm	15=15mm	G=±2%	1m=R001
	07=0.7mm	13=1.3mm	23=2.3mm	Ag	UM-type	20=20mm	20=20mm	J=±5%	10m=R010
	08=0.8mm	14=1.4mm	26=2.6mm	Cu	K-type	25=25mm		K=±10%	100m=R10
	09=0.9mm	15=1.5mm	29=2.9mm		KA-Type				
	10=1.0mm	16=1.6mm	40=4.0mm		C-type				

Material* Chemical element (化學元素)

No. Not specified (沒有指定)

Cu. Copper (銅)

Ag. Silver (銀)

Sn. Tin (錫)

Part Code

Part No.	Φd : mm	Φd:Inches	Part No.	Φd (mm)	Inches	Part No.	Φd (mm)	Inches
MSR04	0.4	0.16	MSR11	1.1	0.43	MSR18	1.8	0.71
MSR06	0.6	0.24	MSR12	1.2	0.47	MSR20	2.0	0.79
MSR07	0.7	0.27	MSR13	1.3	0.51	MSR23	2.3	0.90
MSR08	0.8	0.31	MSR14	1.4	0.55	MSR26	2.6	1.02
MSR09	0.8	0.31	MSR15	1.5	0.59	MSR29	2.9	1.14
MSR10	1.0	0.39	MSR16	1.6	0.63	MSR40	4.0	1.57

Specification

Part Code	Max.(A)*	Resistance	Tolerance	TCR(Max.)	Part Code	Max.(A)*	Resistance	Tolerance	TCR(Max.)
MSR04	2	100~200m	±1%~±10%	±100ppm/°C	MSR14	8	10~20m	±1%~±10%	±100ppm/°C
MSR06	3	50~100m	±1%~±10%	±100ppm/°C	MSR15	9	10~20m	±1%~±10%	±100ppm/°C
MSR07	4	30~70m	±1%~±10%	±100ppm/°C	MSR16	9.5	10~15m	±1%~±10%	±100ppm/°C
MSR08	4.5	20~50m	±1%~±10%	±100ppm/°C	MSR18	11	5~10m	±1%~±10%	±100ppm/°C
MSR09	5	20~40m	±1%~±10%	±100ppm/°C	MSR20	12	5~10m	±1%~±10%	±100ppm/°C
MSR10	5.5	15~20m	±1%~±10%	±100ppm/°C	MSR23	14	3~10m	±1%~±10%	±100ppm/°C
MSR11	6	10~20m	±1%~±10%	±100ppm/°C	MSR26	18	3~5m	±1%~±10%	±100ppm/°C
MSR12	7	10~20m	±1%~±10%	±100ppm/°C	MSR29	21	3~5m	±1%~±10%	±100ppm/°C
MSR13	7.5	10~20m	±1%~±10%	±100ppm/°C	MSR40	50	1~4m	±1%~±10%	±100ppm/°C
Rated Ambient Temperature:			+70°C						
Operating Temperature Range:			-40°C to +180°C						

(A)*: Current Rated

* Others data not in the specification of data, please contact us.

如果你要求的規格不在本規格書裡請與我們聯絡。

※ 美隆電子產品規格特性參數的改變和更新, 不會另行通知。

※ Mayloon characteristic parameters of electronic product specification changes or updates without prior notice。

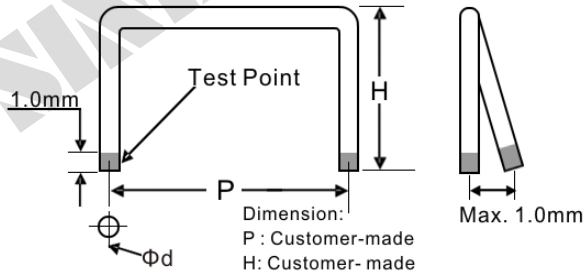
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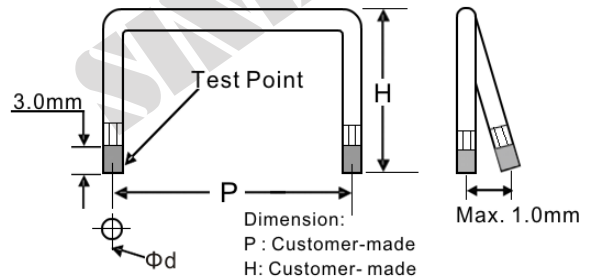
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Shunt Resistor

Dimension and construction

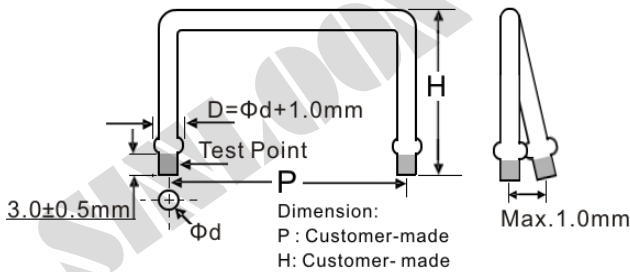
U-Type



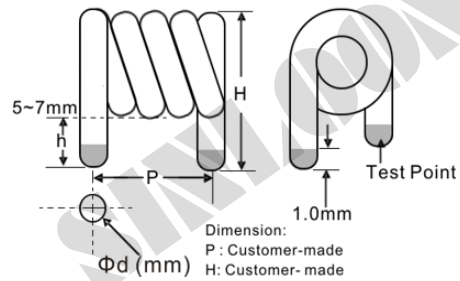
UA-Type



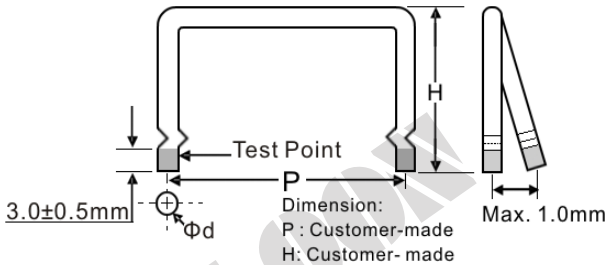
UB-Type



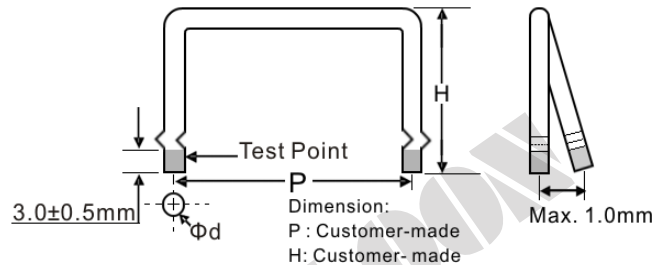
C-Type



K-Type



KA-Type



Characteristics

Parameter	Requirement $\Delta R \pm \%$		Test Method
	Limit	Typical	
Resistance	Within specified tolerance		25°C
T.C.R (ppm/°C)	Within specified T.C.R.		Room temperature: +100°C up.
Resistance to Soldering Heat	±2.0%	±1.6%	350°C±10°C, 3 seconds
Moisture Resistance	±3.0%	±2.7%	Power Rated x 1/10, 40°C, 90%-96% RH. 1000hrs, 1.5hrs [ON]. 0.5grs [OFF] cycle.
Endurance at 70°C	±5.0%	±3.0%	Rated voltage, 70°C, 1000hrs. 1.5hrs [ON]. 0.5grs [OFF] cycle.

Derating Curve

