



MS-40 40 AMP DC mV Meter Shunt



MS Series Shunts plug right in most multi meters & custom designed for 50 mV and 100 mV voltage drop applications

Visit our [ONLINE STORE](#) to buy now!

The MS Series Shunts can be custom-made for 50mV & 100 mV applications. The values that are listed below are typical input values for the **50mV** shunts using the **Volt Drop Method**:

(W) R	Current (I)	Watts (P)
0.001	50A	2.50W
0.002	25A	1.25W
0.003	16.7A	0.83W
0.004	12.5A	0.62W
0.005	10A	0.5W
0.006	8.3A	0.42W
0.007	7.14A	0.36W
0.008	6.25A	0.31W
0.009	5.5A	0.28W
0.010	5A	0.25W
0.020	2.5A	0.125W
0.025	2A	0.1W
0.030	1.67A	0.08W
0.040	1.25A	0.06W
0.050	1A	0.05W
0.100	0.5A	0.025W
0.200	0.25A	0.0125W
0.250	0.2A	0.01W
0.500	0.1A	0.005W
1.0	0.05A	0.0025W

Ohm's Law Formulas

$$I = (E/R), (P/E), (\text{square of } P/R)$$

$$P = (E^2/R), (EI), (I^2R)$$

$$R = (E/I), (E^2/P), (P^2/I)$$

$$E = (IR), (P/I), (\text{square of } RP)$$

Electrical Specifications

RESISTANCE AND TOLERANCES:

.001Ω to 100Ω in any specified value or decimal part of an Ohm to as close as ±0.005% Tolerance, see Fig. 2.

TCR CHARACTERISTICS:

to 0±10 ppm/°C.

POWER RATINGS:

All resistance values at full power are based upon ±1% resistance tolerance at 25°C. Derating is required for higher temperatures and/or closer tolerances.

PROTECTIVE ENCAPSULATION:

High temperature epoxy.

TERMINALS:

Heavy-duty commercially pure copper test leads match current rating of shunt selected. Also Four(4) low EMF copper terminals are available for very accurate current-sensing applications.

MARKING:

PRC symbol, type, resistance value, tolerance and terminals. Custom marking, if specified. e.g. MS-40A = 0.001 Ω (to 40A).

PURCHASING INFORMATION:

Please specify (where they apply): Quantity, PRC type or resistance value, resistance tolerance, DC current, wattage, TCR characteristic, and temperature span of operation and terminals required.

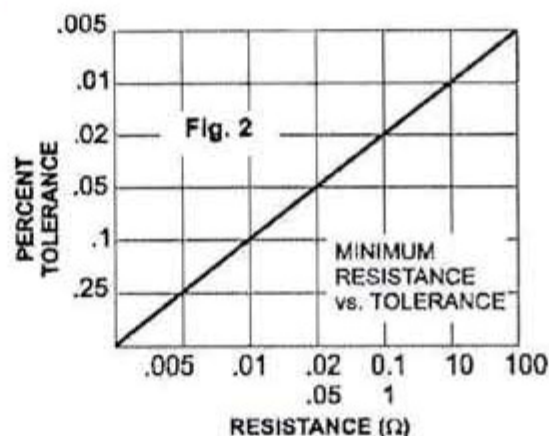
REMEMBER:

If you are looking for an easy and inexpensive method to test for high current in charging systems for motorcycles, ATVs, personal water crafts & other recreational type vehicles, then PRC's popular MS-40 Meter Shunts (which include heavy-duty test leads) are ideal for these types of applications & readily available for delivery within one week.

CUSTOMIZED SHUNTS:

We can also customize any of our MS shunts to your specs in any ohmic value from 0.001 Ω to 100 Ω with several 2 & 4 terminal designs for power or current-sensing applications. All of which are reasonably priced with quick deliveries, & yes we accept VISA & MasterCard!

Detailed Images



Details

SKU	MS-40
Type	2 & 4 terminals
Length	1.50"
Width	0.650"
Height	2.0"
TCR Char.	to 0 \pm 10 ppm/ $^{\circ}$ C.
Temperature	-65 to +275 $^{\circ}$ C
Resistance	from .001 Ω to 100 Ω
Tolerance	to \pm .005%
Amps	to 50A Max.