

PRECISION CURRENT SHUNT RESISTORS

NSAS

50mV / 75mV

NSAS5, NSAS10, NSAS15, NSAS20, NSAS25,
 NSAS30, NSAS35, NSAS40, NSAS45, NSAS50
 NSAS60, NSAS64, NSAS70, NSAS75, NSAS80
 NSAS100, NSAS120, NSAS125, NSAS150,
 NSAS160, NSAS175, NSAS200, NSAS250,



75mV

NSAS300, NSAS400, NSAS500, NSAS600,
 NSAS750, NSAS1000

Features and Applications

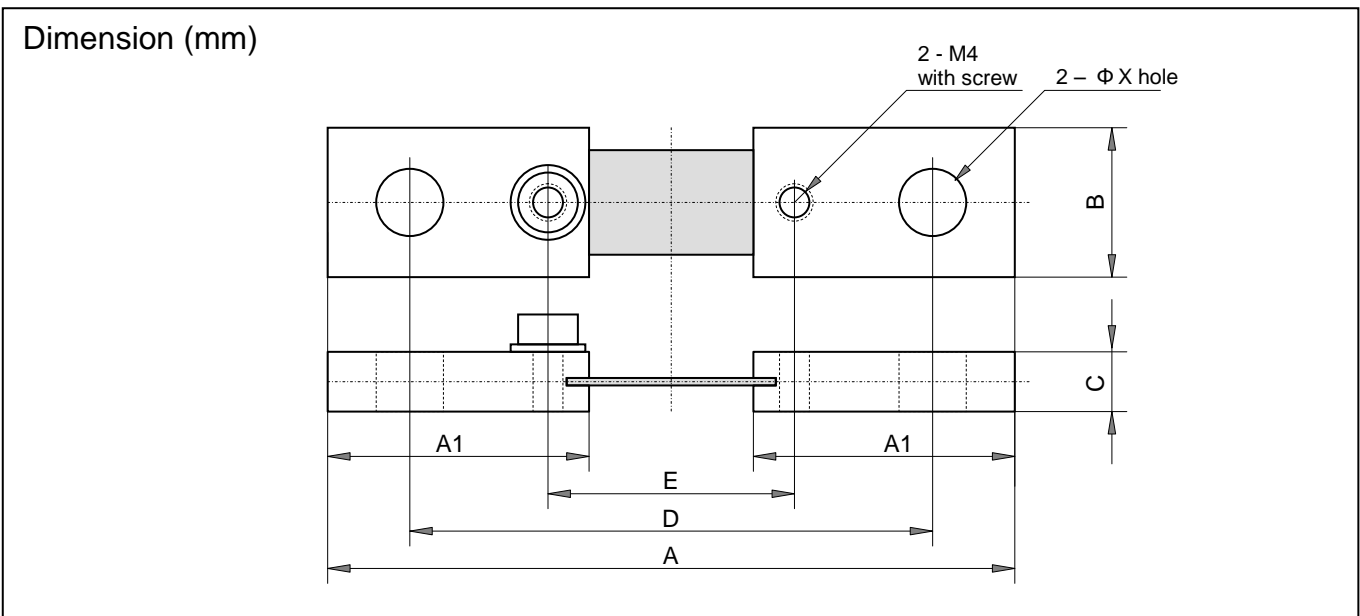
Large current shunt resistors for ampere-meters, designed for standard current measurement of electric equipment.

Excellent long-term stability, low emf and low TCR.

Easy current measurement is performed by attaching to current bus directory and connecting to ampere-meter through flexible wires.

All of shunts are calibrated on equipment with current certifications traceable to factory

For high precision power supply, power converters, and current measurement instruments.



PRECISION CURRENT SHUNT RESISTORS NSAS

50mV

Current (A)	A (mm)	A1 (mm)	B (mm)	C (mm)	D (mm)	E (mm)	M*(pcs)	X (mm)	Resistance (mΩ)
5	80	28	12.7	6.35	63.5	33	1	6.7	10.0000
10	80	28	12.7	6.35	63.5	33	1	6.7	5.0000
15	80	28	12.7	6.35	63.5	33	1	6.7	3.331/3
20	80	28	12.7	6.35	63.5	33	1	6.7	2.5000
25	80	28	12.7	6.35	63.5	33	1	6.7	2.0000
30	80	28	12.7	6.35	63.5	33	1	6.7	1.6667
32	80	28	12.7	6.35	63.5	33	1	6.7	1.5625
35	80	28	12.7	6.35	63.5	33	1	6.7	1.4286
40	80	28	12.7	6.35	63.5	33	1	6.7	1.2500
45	80	28	12.7	6.35	63.5	33	1	6.7	1.1110
50	80	28	12.7	6.35	63.5	33	1	6.7	1.0000
60	80	28	16.0	6.0	63.5	33	1	8.5	0.8333
64	80	28	16.0	6.0	63.5	33	1	8.5	0.7810
70	80	28	16.0	6.0	63.5	33	1	8.5	0.7142
75	80	28	16.0	6.0	63.5	33	1	8.5	0.66667
80	80	28	16.0	6.0	63.5	33	1	8.5	0.6250
100	92	35	20.0	8.0	70.0	33	1	8.5	0.5000
120	92	35	20.0	8.0	70.0	33	1	8.5	0.41667
125	92	35	20.0	8.0	70.0	33	1	8.5	0.4000
150	92	35	20.0	8.0	70.0	33	2	8.5	Q.33331/3
160	92	35	20.0	8.0	70.0	33	2	8.5	0.3125
175	96	38	25.0	12.0	73.0	33	2	11	0.28571
200	96	38	25.0	12.0	73.0	33	2	11	0.2500
250	96	38	25.0	12.0	73.0	33	2	11	0.2000

75mV

Current (A)	A (mm)	A1 (mm)	B (mm)	C (mm)	D (mm)	E (mm)	M (pcs)	X (mm)	Resistance (mΩ)
5	80	28	12.7	6.35	63.5	33	wire	6.7	15.0000
10	80	31	12.7	6.35	63.5	33	wire	6.7	7.5000
15	80	28	12.7	6.35	63.5	33	1	6.7	5.0000
20	80	28	12.7	6.35	63.5	33	1	6.7	3.7500
25	80	28	12.7	6.35	63.5	33	1	6.7	3.0000
30	80	28	12.7	6.35	63.5	33	1	6.7	2.5000
40	80	28	12.7	6.35	63.5	33	1	6.7	1.8750
50	80	28	12.7	6.35	63.5	33	1	6.7	1.5000
60	80	28	16	6	63.5	33	1	8.5	1.2500
75	80	28	16	6	63.5	33	1	8.5	1.0000
100	84	30	20	8	63.5	33	1	8.5	0.7500
150	84	30	20	8	63.5	33	2	8.5	0.5000
200	100	38	20	8	73	33	2	11	0.3750
250	100	38	20	8	73	33	2	11	0.3000
300	100	38	20	12	73	33	2	11	0.2500
400	100	38	20	12	73	33	2	11	0.1875
500	100	38	25	12	73	33	2	11	0.1500
600	100	38	30	12	73	33	2	11	0.1250
750	100	38	40	12	73	33	2	11	0.10000
1000	100	38	50	12	73	33	2	11	0.07500

Ordering Information

Style
NSAS
NSAS

Rated Current in A
100
5 --250
5 --1000

Voltage in mV
-50
-50
-75

Tolerance
C
C(+/-0.25%)

Code
Z00
Z00

- (1) Accuracy will be assure B(+/-0.1%) in option.
- (2) Recommended operation current shall be 2/3 of their rated current.

Specification and Performance

Rated Output (mV)	50mV or 75mV
Eq. Resistance(milliohms)	Resistance is based on the amperage and millivolt rating, nominal resistance is calculated using Ohms law.
Voltage Tolerance (%)	+/-0.25%(C)
Operating Temp. (deg C)	+30 to +70 deg C measured at center of manganin strips
Strage Temp. (deg C)	-55 to +80 deg C

The way to reduce the operating temperature, such as forced air, increasing physical size, adding heat sink to the blocks, designing