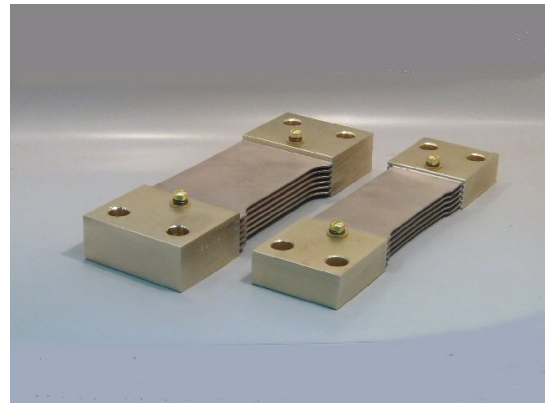


## PRECISION CURRENT SHUNT RESISTORS

NSB300, NSB400, NSB500  
 NSB600, NSB700, NSB800  
 NSB1000, NSB1200



### Features and Applications

Large current shunt resistors for ampere-meters, designed for power electric equipment.

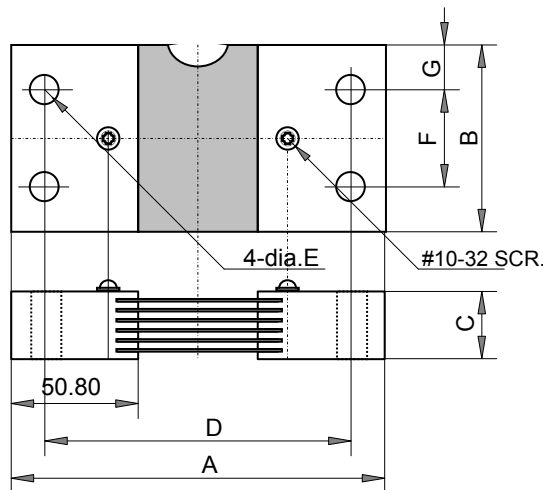
Excellent long-term stability, low emf and low TCR.

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 US-N.I.S.T

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

### Dimension (mm)



mm	NSB300-50	NSB400-50	NSB500-50	NSB600-50	NSB750-50	NSB800-50	NSB1000-50	NSB1200-50
A	149.23	149.23	149.23	149.23	149.23	149.23	149.23	149.23
B	44.45	50.80	50.80	50.80	57.15	60.33	63.50	76.20
C	12.70	19.05	19.05	19.05	19.05	19.05	25.40	25.40
D	120.65	120.65	120.65	120.65	120.65	120.65	120.65	120.65
E	11.13	11.13	11.13	11.13	11.13	11.13	11.13	11.13
F	25.40	31.75	31.75	31.75	38.10	38.10	38.10	38.10
G	9.53	9.53	9.53	9.53	9.53	9.53	12.70	19.05

mm	NSB300-100	NSB400-100	NSB500-100	NSB600-100	NSB750-100	NSB800-100	NSB1000-100	NSB1200-100
A	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
B	44.45	50.80	50.80	50.80	57.15	60.33	63.50	76.20
C	12.70	19.05	19.05	19.05	19.05	19.05	25.40	25.40
D	168.28	168.28	168.28	168.28	168.28	168.28	168.28	168.28
E	11.13	11.13	11.13	11.13	11.13	11.13	11.13	11.13
F	25.40	31.75	31.75	31.75	38.10	38.10	38.10	38.10
G	9.53	9.53	9.53	9.53	9.53	11.13	11.13	19.05

## PRECISION CURRENT SHUNT RESISTORS NSB300, NSB400, NSB500, NSB600, NSB700, NSB800 NSB1000, NSB1200

### Ordering Information

Style NSB	Rated Current in A 300	Voltage in mV -50	Tolerance C	Code Z00
NSB	300 400 500 600 750 800 1000 1200	-50 -60 -100	C(+/-0.25%)  (1)	Z00

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

### Specification and Performance

	NSB300	NSB400	NSB500	NSB600	NSB750	NSB800	NSB1000	NSB1200
Rated Current (A)	300	400	500	600	750	800	1000	1200
Operating Current (A)	200	267	333	400	500	533	667	800
Rated Output (mV)	50, 60 or 100							
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							
Storage Temp. (deg C)	-55 to +80 deg C							
Weight (Kg)								

The way to reduce the operating temperature, such as forced air, increasing physical size, adding heat sink to the blocks, designing for water cooling, and etc.

	50mV
NSB300-50	0.16666
NSB400-50	0.12500
NSB500-50	0.10000
NSB600-50	0.08333
NSB750-50	0.06666
NSB800-50	0.06250
NSB1000-50	0.05000
NSB1200-50	0.04166
	100mV
NSB300-100	0.33333
NSB400-100	0.25000
NSB500-100	0.20000
NSB600-100	0.16666
NSB750-100	0.13333
NSB800-100	0.12500
NSB1000-100	0.10000
NSB1200-100	0.08333

Thickness (mm)	Width (mm)	Current (A) at 30 deg C Temp. Rise	Current (A) at 65 deg C temp. Rise
3	25	230	362
4	25	290	456
4	50	510	802
5	25	340	535
5	50	610	960
6	25	380	598
6	30	430	675
6	40	550	865
6	50	680	1070
6	75	940	1479
6	100	1200	1888
6	125	1440	2265
6	150	1680	2643
8	50	800	1258
8	75	1100	1730
8	100	1400	2202
8	125	1650	2595
8	150	1930	3036
10	50	880	1384
10	75	1220	1919
10	100	1540	2422

Resistance (milliohm) calculated from the V-I characteristic.

Current capacity of copper bus bar, JSIA

20111201