

精密シャント

PRECISION CURRENT SHUNT RESISTORS

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



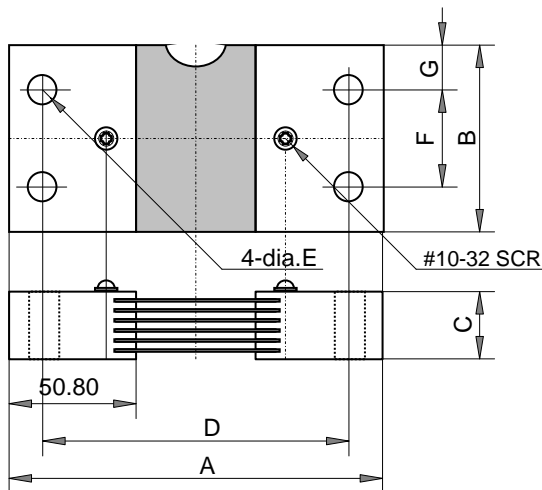
特長・用途

電流標準として使用できる±0.25%級精密シャント。
 優れた、長期間安定性、熱起電力、温度依存性。
 電流端子はそのままバスに接続し、電圧端子は絶縁被覆ケーブルで電流計測器に接続できる簡単な構造。
 NSB シリーズ電流シャントは、米計測標準研究所標準への校正追跡性があります。
 高精度の電源、電力変換機器、パワーコンバータ、電流計測機器。

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.

外形寸法 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

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 NSB1000, NSB1200

品目呼称 Ordering Information

Style	Rated Current in A	Voltage in mV(3)	Tolerance	Code
NSB	300	-50	C	Z00
NSB	300	-50	C(+/-0.25%)	Z00
	400	-100	(1)	
	500			
	600			
	750			
	800			
	1000			
	1200			

- (1) 電圧許容差は、B(+/-0.1%)もオプション価格で、供給できます。Accuracy will be assure B(+/-0.1%) in option.
- (2) 推奨動作電流の最大値は定格の 2/3 にされることを推奨します。Recommended operation current shall be 2/3 of their rated current.
- (3) 60mV の定格出力が必要な場合は、ハイサイド増幅器の利得を調整してください。

性能・仕様 Specification and Performance

	NSB300	NSB400	NSB500	NSB600	NSB750	NSB800	NSB1000	NSB1200
定格電流 (A)	300	400	500	600	750	800	1000	1200
動作電流 (A)	200	267	333	400	500	533	667	800
定格出力 (mV)	50 or 100							
換算抵抗値(milliohms)	Resistance is based on the amperage and millivolt rating, nominal resistance is calculated using Ohms law.							
電圧許容差 (%)	+/-0.25%(C)							
動作温度範囲 (deg C)	+30 to +70 deg C measured at center of manganin strips							
保存温度範囲 (deg C)	-55 to +80 deg C							
重量 (Kg)								

冷却は強制空冷、放熱器への取り付け、液冷却ブスの活用などの方法によります。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

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