



## BACKED HALF-FULL BRIDGE GAUGES

Product Code	Total Length, mm (inch)	Active Length, mm (inch)	Width, mm (inch)	Lead Attachment	Thickness, mm (inch)	Resistance, $\Omega$ @ 25°C	Gauge Factor	TCGF % change per 56°C/100°F temperature variation	TCR
<b>BAR SHAPED</b>									
SSGH-080-050-120 PB	2.032 (0.08)	1.27 (0.05)	0.203 (0.008)	Welded	0.010 (0.0004)	120±20	120±10	-9%	5%
SSGH-080-050-345 PB	2.032 (0.08)	1.27 (0.05)	0.203 (0.008)	Welded	0.010 (0.0004)	345±40	140±10	-13%	16%
SSGH-060-033-500 PB	1.524 (0.06)	0.838 (0.033)	0.203 (0.008)	Welded	0.010 (0.0004)	540±50	140±10	-13%	15%
SSGH-060-033-1000 PB	1.524 (0.06)	0.838 (0.033)	0.203 (0.008)	Welded	0.010 (0.0004)	1050±75	155±10	-18%	24%
SSGH-060-033-5000 PB	1.524 (0.06)	0.838 (0.033)	0.203 (0.008)	Welded	0.010 (0.0004)	5000±500	175±10	-23%	47%
<b>U SHAPED</b>									
SSGH-060-033-2000 PUB	1.524 (0.06)	0.838 (0.033)	0.203 (0.008)	Welded	0.010 (0.0004)	2000±100	155±10	-18%	25%
SSGH-080-050-10000PUB	2.032 (0.08)	1.27 (0.05)	0.33 (0.013)	Welded	0.010 (0.0004)	10000±1000	175±10	-23%	42%

Backing Membrane			
Backing material	Thickness	Temperature rating	Electrical Trace Material
FR-4	0.127 mm / 0.005 inch	-250 °C	1 Oz Copper/Tin (top side only)

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Standard gauge specification			
Materials	Operating strain	Linearity	Operating temperature
Doped Silicon, single crystal	+/- 3000 $\mu\text{m}/\text{m}$ (standard); +/- 9000 $\mu\text{m}/\text{m}$ (special)	better than +/- 0.25% to 600 $\mu\text{m}/\text{m}$ ; better than 1.5% to 1500 $\mu\text{m}/\text{m}$	260 °C (standard)

IF YOU USE MORE THAN ONE GAUGE IN COMBINATION. MINIMIZE THERMAL IMBALANCE AND DRIFT BY SELECTING SETS OF THERMALLY MATCHED GAUGES

Standard matching	
Temperature	% of base resistance
-18 °C	+/- 0.6%
25 °C	+/- 0.4%
135 °C	+/- 0.4%

MIL SPEC MATCHING TO TIGHTER TOLERANCE AND ADDITIONAL TEMPERATURE POINTS AVAILABLE

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