

U-GAUGES

Product Code	Total Length, mm (inch)	Active Length, mm (inch)	Width, mm (inch)	Lead Attachment	Thickness, mm (inch)	Resistance, Ω @ 25°C	Gauge Factor	TCGF % change per 56°C/100°F temperature variation	TCR
SS-018-011-3000 PU	0.457 (0.018)	0.279 (0.011)	0.305 (0.012)	Ball Bond	0.010 (0.0004)	3000±150	100±10	-23%	42%
SS-028-008-400 PU	0.711 (0.028)	0.203 (0.008)	0.406 (0.016)	Welded	0.010 (0.0004)	400±40	150±10	-18%	24%
SS-037-022-500 PU	0.934 (0.037)	0.5588 (0.022)	0.406 (0.016)	Welded	0.010 (0.0004)	540±50	150±10	-13%	17%
SS-047-025-350 PU	1.194 (0.047)	0.635 (0.025)	0.406 (0.016)	Welded	0.010 (0.0004)	325±40	100±10	-10%	6%
SS-047-025-500 PU	1.194 (0.047)	0.635 (0.025)	0.406 (0.016)	Welded	0.010 (0.0004)	540±50	140±10	-13%	16%
SS-047-025-1000 PU	1.194 (0.047)	0.635 (0.025)	0.406 (0.016)	Welded	0.010 (0.0004)	1000±100	160±10	-20%	28%
SS-060-033-300PU	1.524 (0.06)	0.838 (0.033)	0.406 (0.016)	Welded	0.010 (0.0004)	325±40	100±10	-10%	6%
SS-060-033-500PU	1.524 (0.06)	0.838 (0.033)	0.406 (0.016)	Welded	0.010 (0.0004)	540±50	140±10	-12%	14%
SS-060-033-2000PU	1.524 (0.06)	0.838 (0.033)	0.406 (0.016)	Welded	0.010 (0.0004)	2000±100	155±10	-18%	24%
SS-080-050-10000PU	2.032 (0.08)	1.27 (0.05)	0.33 (0,013)	Welded	0.010 (0.0004)	10000±1000	175±10	-23%	42%
SS-095-060-350PU	2.413 (0.095)	1.524 (0.06)	0.406 (0.016)	Welded	0.010 (0.0004)	350±50	120±10	-9%	5%

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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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