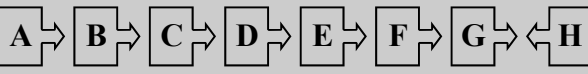



STANDARD SEMICONDUCTOR STRAIN GAGES

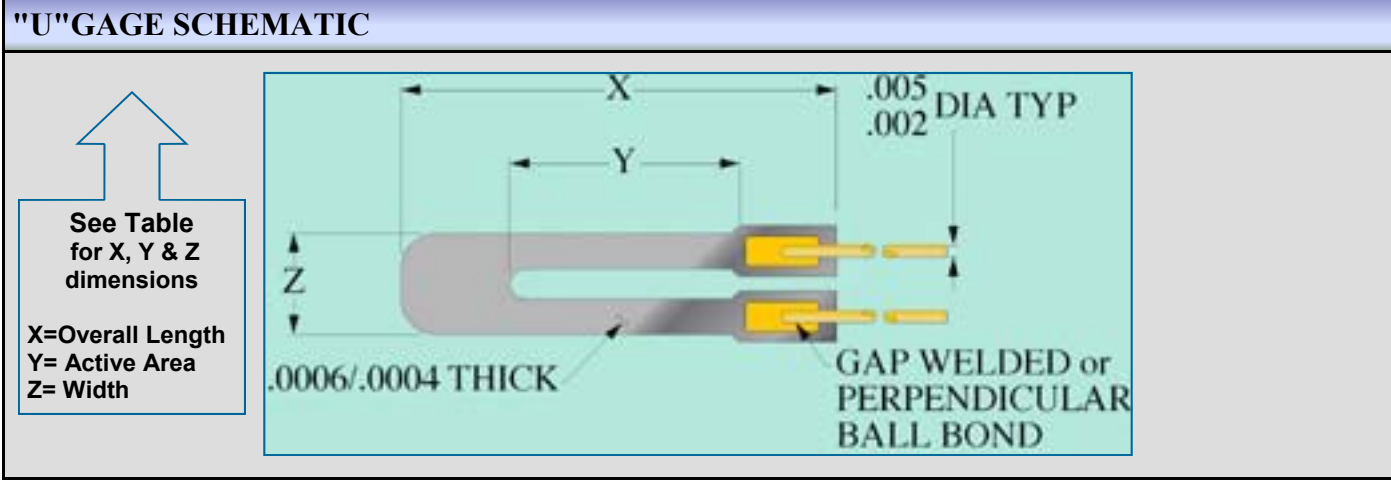
Micron semiconductor strain gages are made from "P" doped bulk silicon. They have no P/N junction. The Silicon is etched to shape, eliminating the potential for molecular dislocation or cracks, thereby optimizing performance.

STANDARD GAGE SPECIFICATIONS	
Materials	Czochralski pulled boron doped silicon
Leads	.002 dia. Gold x 0.5 in. long. Some gages have .0015 dia. Leads.
Contact Pad	Gold nickel fused, aluminum for Hi-Temp
Lead Attachment	Parallel gap welded with epoxy reinforcement or ball bonded
Operating Strain	±2000 μ inch/inch (3000 μ inch/inch max.)
Linearity	Better than ±0.25% to 600 μ inch/inch
	Better than ±1.5% to 1500 μ inch/inch
Max. Operating Temperature	+600°F

Ordering Guidelines	Example
	
A. Model (SS)	SS-080-050-500P U B S4 is a semiconductor strain gage with a total length of 080 and an active length of 050. The gage has a nominal resistance of 500 at 78 degrees F. The gage is further defined as Dopant "U"* Backed Gage and S4 specifies a matched set of 4 gages. Note: <ul style="list-style-type: none"> ▪ S4 Matched set of 4 gages ▪ S2 Matched set of 2 gages. ▪ S1 Single gage with data. ▪ S0 Single gage without data. *Specify Gage Type: "U", "M" or Leave Blank for Bar Gage.
B. Total Length	
C. Active Length	
D. Nominal Resistance at 78°F	
E. Dopant	
F. U Gage , M Gage, or Leave Blank for Bar Gage*	
G. Backed Gage	
H. Specifies Matched Gages or Bulk	

Standard Bridge Matching			
Temperature °F	0°	78°	278°
Standard Matching	±3Ω	±2Ω	±2Ω
Note: Other custom special matching gages or additional data points are available. Please contact Micron Instruments for details.			

"U" SHAPED GAGE							
Part Number X Y	Z	Lead Attachment	Thickness	Resistance Ohms @ 78°F	Gage Factor	TCGF	TCR
SS-028-008-400PU	0.016	Welded	0.0004	400 ± 40	150 ± 10	-18%	24%
SS-037-022-500PU	0.016	Welded	0.0004	540 ± 50	150 ± 10	-13%	17%
SS-047-025-500PU	0.016	Welded	0.0004	540 ± 50	140 ± 10	-13%	16%
SS-047-025-1000PU	0.016	Welded	0.0004	1000 ± 100	160 ± 10	-20%	28%
SS-060-033-300PU	0.016	Welded	0.0004	325 ± 40	100 ± 10	-10%	6%
SS-060-033-500PU	0.016	Welded	0.0004	540 ± 50	140 ± 10	-12%	14%
SS-060-033-2000PU	0.016	Welded	0.0004	2000 ± 100	155 ± 10	-18%	24%
SS-080-050-10000PU	0.013	Welded	0.0004	10000 ± 1000	175 ± 10	-23%	42%
SS-095-060-350PU	0.016	Welded	0.0004	350 ± 50	120 ± 10	-9%	5%



"M" SHAPED GAGE							
Part Number X Y	Z	Lead Attachment	Thickness	Resistance Ohms @ 78°F	Gage Factor	TCGF	TCR
SS-060-040-2500PM	0.032	Welded	0.004	2500 ± 150	140 ± 10	-13%	17%

