

Specifications and Selection Charts

SHUNT-CALIBRATION RESISTORS				
	Order No.	Resistance in Ohms	Tolerance in %	Equivalent Microstrain
For 120Ω Gage Circuit	W-599880-02	599 880	±0.02	100
	W-119880-02	119 880	±0.02	500
	S-59880-01	59 880	±0.01	1000
	S-29880-01	29 880	±0.01	2000
	S-19880-01	19 880	±0.01	3000
	S-14880-01	14 880	±0.01	4000
	S-11880-01	11 880	±0.01	5000
	S-5880-01	5 880	±0.01	10,000
For 350Ω Gage Circuit	W-349650-02	349 650	±0.02	500
	W-174650-02	174 650	±0.02	1000
	S-87150-01	87 150	±0.01	2000
	S-57983-01	57 983	±0.01	3000
	S-43400-01	43 400	±0.01	4000
	S-34650-01	34 650	±0.01	5000
	S-17150-01	17 150	±0.01	10,000
For 1000Ω Gage Circuit	W-999000-02	999 000	±0.02	500
	W-499000-02	499 000	±0.02	1000
	W-249000-02	249 000	±0.02	2000
	W-165666-02	165 666	±0.02	3000
	W-124000-02	124 000	±0.02	4000
	S-99000-01	99 000	±0.01	5000
	S-49000-01	49 000	±0.01	10,000

The "Equivalent Microstrain" column shows the true compression strain simulated by shunting each calibration resistor across an active strain gage arm of the exact indicated resistance, based on a circuit gage factor setting of 2.000.

BRIDGE COMPLETION RESISTORS	
Circuit and Bridge Completion Tolerance ±0.01%	
Order No.	Resistance in Ohms
S-50-01	50
S-60-01	60
S-100-01	100
S-120-01	120
S-175-01	175
S-240-01	240
S-350-01	350
S-500-01	500
S-1000-01	1000
S-2000-01	2000
S-5000-01	5000
H-100-01	100
H-120-01	120
H-350-01	350
H-1000-01	1000

Note: Shunt-calibration resistors are chosen to accurately simulate resistance change in a strain gage subjected to specified levels of compressive strain. Strain indicators generally produce a linear output with a fully active half-bridge or full-bridge input circuit, and will be slightly in error when a single active arm is used. The same nonlinearity occurs whether the gage is actually strained in compression or simulated by shunting the gage with the corresponding calibration resistor. See Tech Note TN-514, "Shunt Calibration of Strain Gage Instrumentation."