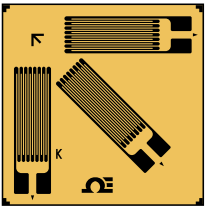


PRECISION STRAIN GAGE RECTANGULAR CORNER ROSETTES AND RESIDUAL STRESS PATTERN

Custom-Designed
Strain Gages
Available!
No Minimum Quantities.
Consult Engineering.

To Order



GAGE PATTERN Leads not shown	MODEL NO. Pkg of 10	NOM. RESISTANCE (Ω)	DIMENSIONS mm (inch) [†]				MAX PERMITTED BRIDGE ENERGIZING VOLTAGE (Vrms)	TERMINATION	TEMP COMP	TERM PAD
			GRID		CARRIER					
			A	B	C	D				
RECTANGULAR CORNER ROSETTE										
Shown actual size, 27 mm, leads not shown 	SGD-13/120-RY91	120	11.0 (0.433)	5.0 (0.197)	27.0 (0.06)	27.0 (0.06)	15	Ribbon Leads	ST	BPT-6
	SGD-13/120-RY93	120	Corner rosette extra-large 120 Ω				20	Ribbon Leads	AL	
	SGD-13/120-RY21	120					15	Solder Pads	ST	
	SGD-13/120-RY23	120					20	Solder Pads	AL	

Open-face gages available. Consult Pressure Sales and Engineering.


Note: For strain gage accessories, visit us online.

Ordering Example: SGD-13/120-RY91, 120 Ω nominal-resistance strain gage.

NOTE
ST = Steel
AL = Aluminum

To Order



GAGE PATTERN Leads not shown	MODEL NO. Pkg of 10	NOM. RESISTANCE (Ω)	DIMENSIONS mm (inch) [†]				MAX PERMITTED BRIDGE ENERGIZING VOLTAGE (Vrms)	TERMINATION	TEMP COMP	TERM PAD
			GRID		CARRIER					
			A	B	C	D				
RESIDUAL STRESS PATTERN ROSETTE										
Shown actual size, 10.5 mm 	SGD-1.5/120-SR11	120	1.20 (0.047)	1.33 (0.052)	10.50 (0.413)	10.50 (0.413)	2.5	Ribbon Leads	ST	BPT-6
	SGD-1.5/120-SR13	120	Residual stress pattern 120 Ω				3.5	Ribbon Leads	AL	
	SGD-1.5/120-SR41	120					2.5	Solder Pads	ST	
	SGD-1.5/120-SR43	120					3.5	Solder Pads	AL	

DISCOUNT SCHEDULE

1 to 10 pkgs. Net
11 to 24 pkgs. 5%
25 to 49 pkgs. 10%
50 and up and OEM . . .Consult Factory

Open-face gages available. Consult Pressure Sales and Engineering.

Note: For strain gage accessories, visit us online.

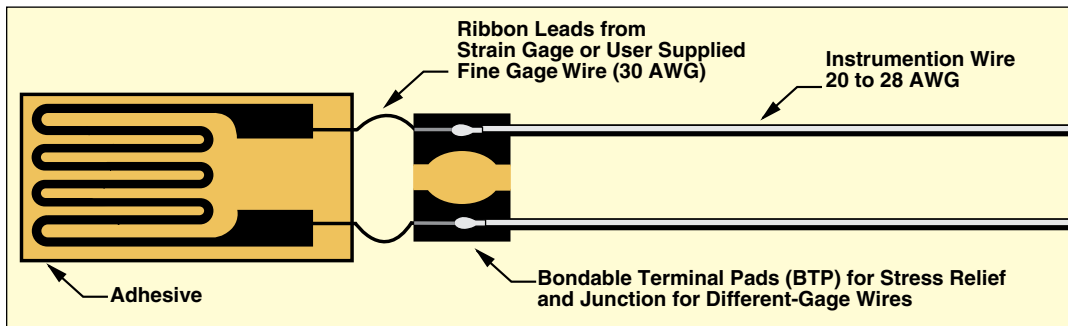
Ordering Example: SGD-1.5/120-SR11, 120 Ω nominal-resistance strain gage.

OMEGA offers stress relief or residual stress pattern strain gages. These strain gages are mounted onto a test piece

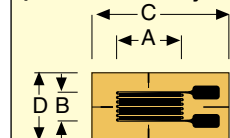
that is already stressed. Instrumentation is attached to all 3 elements in the rosette. The stress magnitude is determined by unloading the test specimen by boring-out or drilling a

small hole in the center of the strain gage. By removing material you are releasing the stress, and measuring the relaxed residual stress in the vicinity of the hole. Hole diameter and depth is 1.85 mm (0.07")

TYPICAL STRAIN GAGE INSTALLATION



† Dimensions Key:



GRID

A: Active gage length
B: Active gage width

CARRIER

C: Matrix length
D: Matrix width

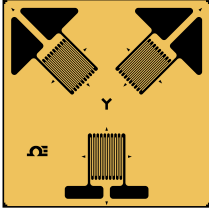
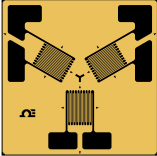
STRAIN GAGES E

ROSETTE STRAIN GAGES

0/45° AND 0/60° ROSETTES

**Custom-Designed
Strain Gages
Available!**
No Minimum Quantities.
Consult Engineering.

To Order

	MODEL NO. Pkg of 5	NOM. RESISTANCE (Ω)	DIMENSIONS mm (inch)*				MAX PERMITTED BRIDGE ENERGIZING VOLTAGE (Vrms)
			GRID		CARRIER		
			A	B	C	D	
ENCAPSULATED WITH RIBBON LEADS—MATCHED TO STEEL							
Pattern 1 0°/45°/90°  3 mm grid	SGD-3/120-RY11	120	3.00 (0.118)	2.90 (0.114)	16.00 (0.630)	16.00 (0.630)	5.5
	SGD-3/350-RY11	350	3.00 (0.118)	2.90 (0.114)	16.00 (0.630)	16.00 (0.630)	9.5
	†SGD-3/120-RY41	120	3.00 (0.118)	2.90 (0.114)	16.00 (0.630)	16.00 (0.630)	5.5
	†SGD-3/350-RY41	350	3.00 (0.118)	2.90 (0.114)	16.00 (0.630)	16.00 (0.630)	9.5
ENCAPSULATED WITH RIBBON LEADS—MATCHED TO ALUMINUM							
† Pattern 2 0°/60°/120°  2 mm grid Typical gage pattern.	SGD-3/120-RY13	120	3.00 (0.118)	2.90 (0.114)	16.00 (0.630)	16.00 (0.630)	8
	SGD-3/350-RY13	350	3.00 (0.118)	2.90 (0.114)	16.00 (0.630)	16.00 (0.630)	13
	†SGD-3/120-RY43	120	3.00 (0.118)	2.90 (0.114)	16.00 (0.630)	16.00 (0.630)	8
	†SGD-3/350-RY43	350	3.00 (0.118)	2.90 (0.114)	16.00 (0.630)	16.00 (0.630)	13
ENCAPSULATED WITH SOLDER PADS—MATCHED TO STEEL							
Visit us online, for selection guide and exact pattern. Open-face gages available. Consult Pressure Sales and Engineering.	SGD-3/120-RY31	120	3.00 (0.118)	2.90 (0.114)	16.00 (0.630)	16.00 (0.630)	5.5
	SGD-3/350-RY31	350	3.00 (0.118)	2.90 (0.114)	16.00 (0.630)	16.00 (0.630)	9.5
	†SGD-3/120-RY71	120	3.00 (0.118)	2.90 (0.114)	16.00 (0.630)	16.00 (0.630)	5.5
	†SGD-3/350-RY71	350	3.00 (0.118)	2.90 (0.114)	16.00 (0.630)	16.00 (0.630)	9.5
ENCAPSULATED WITH SOLDER PADS—MATCHED TO ALUMINUM							
	SGD-3/120-RY33	120	3.00 (0.118)	2.90 (0.114)	16.00 (0.630)	16.00 (0.630)	8
	SGD-3/350-RY33	350	3.00 (0.118)	2.90 (0.114)	16.00 (0.630)	16.00 (0.630)	13
	†SGD-3/120-RY73	120	3.00 (0.118)	2.90 (0.114)	16.00 (0.630)	16.00 (0.630)	8
	†SGD-3/350-RY73	350	3.00 (0.118)	2.90 (0.114)	16.00 (0.630)	16.00 (0.630)	13

† Pattern 2.

* For dimensions key, visit us online.

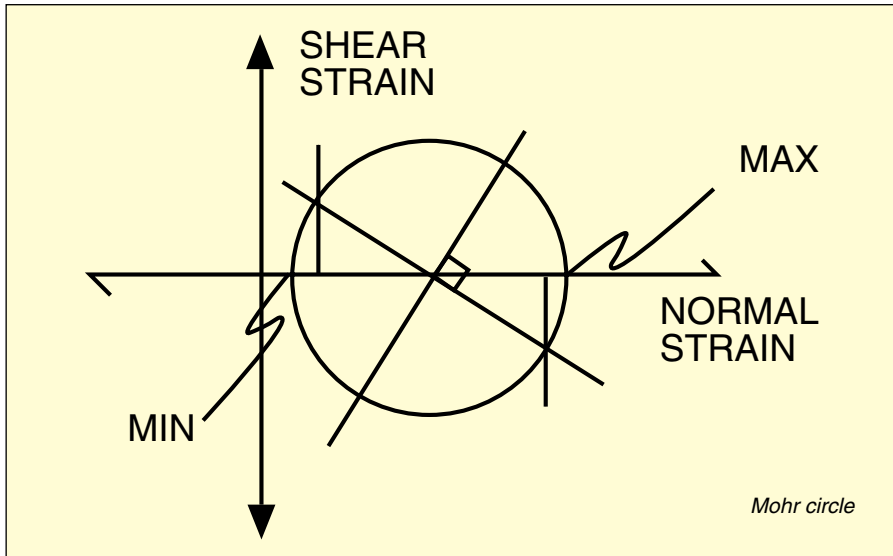
** For accessory terminal pads, visit us online.

Ordering Example: SGD-2/350-RY33, 350 Ω nominal-resistance strain gage.

ROSETTE STRAIN GAGES

PRE-WIRED

Custom-Designed
Strain Gages
Available!
No Minimum Quantities.
Consult Engineering.



Rosettes are used to compute the state of stress at a particular point. The plotted results will form a Mohr circle, which gives the value and orientation of principal strains.

To Order

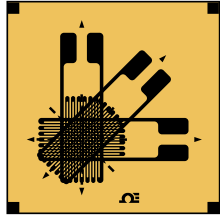
	MODEL NO. Pkg of 10	NOM. RESISTANCE (Ω)	DIMENSIONS mm (inch)*				MAX PERMITTED BRIDGE ENERGIZING VOLTAGE (Vrms)
			GRID		CARRIER		
			A	B	C	D	
0°/45°/90° ENCAPSULATED WITH 2 LEAD WIRES 1 m (3') LONG—MATCHED TO STEEL							
	KFG-1-120-D17-11L1M2S	120	1.0 (0.039)	1.2 (0.047)	5.0 (0.2)	—	1.5
	KFG-2-120-D17-11L1M2S	120	2.0 (0.079)	1.3 (0.051)	8.0 (0.31)	—	2
	KFG-3-120-D17-11L1M2S	120	3.0 (0.12)	1.3 (0.051)	10.0 (0.39)	—	4
	KFG-3-350-D17-11L1M2S	350	3.0 (0.12)	1.3 (0.051)	10.0 (0.39)	—	15
	KFG-5-120-D17-11L1M2S	120	5.0 (0.2)	1.4 (0.055)	11.0 (0.43)	—	8
	KFG-5-350-D17-11L1M2S	350	5.0 (0.2)	1.4 (0.055)	11.0 (0.43)	—	20
0°/45°/90° ENCAPSULATED WITH 3 LEAD WIRES 3 m (9') LONG—MATCHED TO STEEL							
	KFG-1-120-D17-11L3M3S	120	1.0 (0.039)	1.2 (0.047)	5.0 (0.2)	—	1.5
	KFG-2-120-D17-11L3M3S	120	2.0 (0.079)	1.3 (0.051)	8.0 (0.31)	—	2
	KFG-3-120-D17-11L3M3S	120	3.0 (0.12)	1.3 (0.051)	10.0 (0.39)	—	4
	KFG-3-350-D17-11L3M3S	350	3.0 (0.12)	1.3 (0.051)	10.0 (0.39)	—	15
	KFG-5-120-D17-11L3M3S	120	5.0 (0.2)	1.4 (0.055)	11.0 (0.43)	—	8
	KFG-5-350-D17-11L3M3S	350	5.0 (0.2)	1.4 (0.055)	11.0 (0.43)	—	20

* For dimensions key, visit us online.

Ordering Example: KFG-2-120-D17-11L3M3S, package of 10 pre-wired rosette strain gages, encapsulated with 3 lead wires attached to each element, with temperature characteristics matched to steel.

TRIAxIAL STRAIN GAGES 0/45°/90°

To Order



Typical gage pattern.

Visit us online, for selection guide and exact pattern. Open-face gages available. Consult Pressure Sales and Engineering.

Custom-Designed Strain Gages Available!
No Minimum Quantities. Consult Engineering.

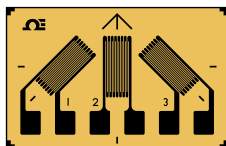
MODEL NO. Pkg of 5	NOM. RESISTANCE (Ω)	DIMENSIONS mm (inch)*				MAX PERMITTED BRIDGE ENERGIZING VOLTAGE (Vrms)
		GRID		CARRIER		
		A	B	C	D	
ENCAPSULATED WITH LEADS—MATCHED TO STEEL						
SGD-2/120-RY51	120	2.00 (0.079)	1.10 (0.043)	5.60 (0.220)	5.60 (0.220)	3
SGD-2/350-RY51	350	2.00 (0.079)	1.10 (0.043)	5.60 (0.220)	5.60 (0.220)	5
SGD-3/120-RY51	120	3.00 (0.118)	1.70 (0.067)	7.10 (0.280)	7.10 (0.280)	4.5
SGD-3/350-RY51	350	3.00 (0.118)	1.70 (0.067)	7.10 (0.280)	7.10 (0.280)	7.5
SGD-7/120-RY51	120	6.50 (0.256)	3.10 (0.122)	11.40 (0.449)	11.40 (0.449)	9
SGD-7/350-RY51	350	6.50 (0.256)	3.10 (0.122)	11.40 (0.449)	11.40 (0.449)	15
ENCAPSULATED WITH LEADS—MATCHED TO ALUMINUM						
SGD-2/120-RY53	120	2.00 (0.079)	1.10 (0.043)	5.60 (0.220)	5.60 (0.220)	4
SGD-2/350-RY53	350	2.00 (0.079)	1.10 (0.043)	5.60 (0.220)	5.60 (0.220)	7
SGD-3/120-RY53	120	3.00 (0.118)	1.70 (0.067)	7.10 (0.280)	7.10 (0.280)	6
SGD-3/350-RY53	350	3.00 (0.118)	1.70 (0.067)	7.10 (0.280)	7.10 (0.280)	10
SGD-7/120-RY53	120	6.50 (0.256)	3.10 (0.122)	11.40 (0.449)	11.40 (0.449)	12
SGD-7/350-RY53	350	6.50 (0.256)	3.10 (0.122)	11.40 (0.449)	11.40 (0.449)	20
ENCAPSULATED WITH SOLDER PADS—MATCHED TO STEEL						
SGD-2/120-RY61	120	2.00 (0.079)	1.10 (0.043)	5.60 (0.220)	5.60 (0.220)	3
SGD-2/350-RY61	350	2.00 (0.079)	1.10 (0.043)	5.60 (0.220)	5.60 (0.220)	5
SGD-3/120-RY61	120	3.00 (0.118)	1.70 (0.067)	7.10 (0.280)	7.10 (0.280)	4.5
SGD-3/350-RY61	350	3.00 (0.118)	1.70 (0.067)	7.10 (0.280)	7.10 (0.280)	7.5
SGD-7/120-RY61	120	6.50 (0.256)	3.10 (0.122)	11.40 (0.449)	11.40 (0.449)	9
SGD-7/350-RY61	350	6.50 (0.256)	3.10 (0.122)	11.40 (0.449)	11.40 (0.449)	15
ENCAPSULATED WITH SOLDER PADS—MATCHED TO ALUMINUM						
SGD-2/120-RY63	120	2.00 (0.079)	1.10 (0.043)	5.60 (0.220)	5.60 (0.220)	4
SGD-2/350-RY63	350	2.00 (0.079)	1.10 (0.043)	5.60 (0.220)	5.60 (0.220)	7
SGD-3/120-RY63	120	3.00 (0.118)	1.70 (0.067)	7.10 (0.280)	7.10 (0.280)	6
SGD-3/350-RY63	350	3.00 (0.118)	1.70 (0.067)	7.10 (0.280)	7.10 (0.280)	10
SGD-7/120-RY63	120	6.50 (0.256)	3.10 (0.122)	11.40 (0.449)	11.40 (0.449)	12
SGD-7/350-RY63	350	6.50 (0.256)	3.10 (0.122)	11.40 (0.449)	11.40 (0.449)	20

* For dimensions key, visit us online. ** For accessory terminal pads, visit us online.

Ordering Example: SGD-2/350-RY51, 350 Ω nominal-resistance strain gage.

3-ELEMENT, 45° STRAIN GAGES

To Order



Typical gage pattern.

Visit us online, for selection guide and exact pattern. Open-face gages available. Consult Pressure Sales and Engineering.

Custom-Designed Strain Gages Available!
No Minimum Quantities. Consult Engineering.

MODEL NO. Pkg of 5	NOM. RESISTANCE (Ω)	DIMENSIONS mm (inch)*				MAX PERMITTED BRIDGE ENERGIZING VOLTAGE (Vrms)
		GRID		CARRIER		
		A	B	C	D	
ENCAPSULATED WITH LEADS—MATCHED TO STEEL						
SGD-1/120-RY21	120	1.6 (0.063)	1.7 (0.067)	6.8 (0.27)	10.5 (0.41)	3
SGD-1/350-RY21	350	1.6 (0.063)	2.1 (0.083)	6.8 (0.27)	10.5 (0.41)	6
SGD-2/350-RY11	350	2.00 (0.079)	2.00 (0.079)	10.50 (0.413)	6.80 (0.268)	6.5
SGD-3/120-RY21	120	3 (0.118)	1.7 (0.067)	8.3 (0.33)	13 (0.51)	4.5
SGD-3/350-RY21	350	3 (0.118)	2.1 (0.083)	8.3 (0.33)	13 (0.51)	8.5
SGD-6/120-RY21	120	6 (0.236)	3.2 (0.126)	13.4 (0.53)	21.4 (0.84)	8.5
SGD-6/350-RY21	350	6 (0.236)	3.1 (0.122)	13.4 (0.53)	21.4 (0.84)	14
ENCAPSULATED WITH LEADS—MATCHED TO ALUMINUM						
SGD-1/120-RY23	120	1.6 (0.063)	1.7 (0.067)	6.8 (0.27)	10.5 (0.41)	4
SGD-1/350-RY23	350	1.6 (0.063)	2.1 (0.083)	6.8 (0.27)	10.5 (0.41)	8.5
SGD-2/350-RY13	350	2.00 (0.079)	2.00 (0.079)	10.50 (0.413)	6.80 (0.268)	9.5
SGD-3/120-RY23	120	3 (0.118)	1.7 (0.067)	8.3 (0.33)	13 (0.51)	6
SGD-3/350-RY23	350	3 (0.118)	2.1 (0.083)	8.3 (0.33)	13 (0.51)	12
SGD-6/120-RY23	120	6 (0.236)	3.2 (0.126)	13.4 (0.53)	21.4 (0.84)	12
SGD-6/350-RY23	350	6 (0.236)	3.1 (0.122)	13.4 (0.53)	21.4 (0.84)	20
ENCAPSULATED WITH SOLDER PADS—MATCHED TO STEEL						
SGD-1/120-RY81	120	1.6 (0.063)	1.7 (0.067)	6.8 (0.27)	10.5 (0.41)	3
SGD-1/350-RY81	350	1.6 (0.063)	2.1 (0.083)	6.8 (0.27)	10.5 (0.41)	6
SGD-2/350-RY31	350	2.00 (0.079)	2.00 (0.079)	10.50 (0.413)	6.80 (0.268)	6.5
SGD-3/120-RY81	120	3 (0.118)	1.7 (0.067)	8.3 (0.33)	13 (0.51)	4.5
SGD-3/350-RY81	350	3 (0.118)	2.1 (0.083)	8.3 (0.33)	13 (0.51)	8.5
SGD-6/120-RY81	120	6 (0.236)	3.2 (0.126)	13.4 (0.53)	21.4 (0.84)	8.5
SGD-6/350-RY81	350	6 (0.236)	3.1 (0.122)	13.4 (0.53)	21.4 (0.84)	14
ENCAPSULATED WITH SOLDER PADS—MATCHED TO ALUMINUM						
SGD-1/120-RY83	120	1.6 (0.063)	1.7 (0.067)	6.8 (0.27)	10.5 (0.41)	4
SGD-1/350-RY83	350	1.6 (0.063)	2.1 (0.083)	6.8 (0.27)	10.5 (0.41)	8.5
SGD-2/350-RY33	350	2.00 (0.079)	2.00 (0.079)	10.50 (0.413)	6.80 (0.268)	9.5
SGD-3/120-RY83	120	3 (0.118)	1.7 (0.067)	8.3 (0.33)	13 (0.51)	6
SGD-3/350-RY83	350	3 (0.118)	2.1 (0.083)	8.3 (0.33)	13 (0.51)	12
SGD-6/120-RY83	120	6 (0.236)	3.2 (0.126)	13.4 (0.53)	21.4 (0.84)	12
SGD-6/350-RY83	350	6 (0.236)	3.1 (0.122)	13.4 (0.53)	21.4 (0.84)	20

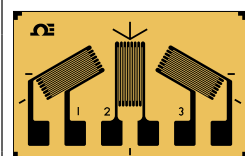
* For dimensions key, visit us online.

** For accessory terminal pads, visit us online.

Ordering Example: SGD-1/120-RY83, 120 Ω nominal-resistance strain gage.

3-ELEMENT, 60° STRAIN GAGES

To Order



Typical gage pattern.

Visit us online, for selection guide and exact pattern. Open-face gages available. Consult Pressure Sales and Engineering.

Custom-Designed Strain Gages Available!
No Minimum Quantities. Consult Engineering.

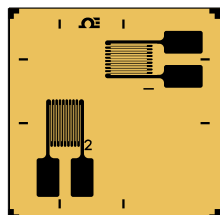
MODEL NO. Pkg of 5	NOM. RESISTANCE (Ω)	DIMENSIONS mm (inch)*				MAX PERMITTED BRIDGE ENERGIZING VOLTAGE (Vrms)
		GRID		CARRIER		
		A	B	C	D	
ENCAPSULATED WITH LEADS—MATCHED TO STEEL						
SGD-1/120-RY621	120	1.6 (0.063)	1.7 (0.067)	6.8 (0.27)	10.5 (0.41)	3
SGD-1/350-RY621	350	1.6 (0.063)	2.1 (0.083)	6.8 (0.27)	10.5 (0.41)	6
SGD-3/120-RY621	120	3 (0.118)	1.7 (0.067)	8.3 (0.33)	13 (0.51)	4.5
SGD-3/350-RY621	350	3 (0.118)	2.1 (0.083)	8.3 (0.33)	13 (0.51)	8.5
SGD-6/120-RY621	120	6 (0.236)	3.2 (0.126)	13.4 (0.53)	21.4 (0.84)	8.5
SGD-6/350-RY621	350	6 (0.236)	3.1 (0.122)	13.4 (0.53)	21.4 (0.84)	14
ENCAPSULATED WITH LEADS—MATCHED TO ALUMINUM						
SGD-1/120-RY623	120	1.6 (0.063)	1.7 (0.067)	6.8 (0.27)	10.5 (0.41)	4
SGD-1/350-RY623	350	1.6 (0.063)	2.1 (0.083)	6.8 (0.27)	10.5 (0.41)	8.5
SGD-3/120-RY623	120	3 (0.118)	1.7 (0.067)	8.3 (0.33)	13 (0.51)	6
SGD-3/350-RY623	350	3 (0.118)	2.1 (0.083)	8.3 (0.33)	13 (0.51)	12
SGD-6/120-RY623	120	6 (0.236)	3.2 (0.126)	13.4 (0.53)	21.4 (0.84)	12
SGD-6/350-RY623	350	6 (0.236)	3.1 (0.122)	13.4 (0.53)	21.4 (0.84)	20
ENCAPSULATED WITH SOLDER PADS—MATCHED TO STEEL						
SGD-1/120-RY681	120	1.6 (0.063)	1.7 (0.067)	6.8 (0.27)	10.5 (0.41)	3
SGD-1/350-RY681	350	1.6 (0.063)	2.1 (0.083)	6.8 (0.27)	10.5 (0.41)	6
SGD-3/120-RY681	120	3 (0.118)	1.7 (0.067)	8.3 (0.33)	13 (0.51)	4.5
SGD-3/350-RY681	350	3 (0.118)	2.1 (0.083)	8.3 (0.33)	13 (0.51)	8.5
SGD-6/120-RY681	120	6 (0.236)	3.2 (0.126)	13.4 (0.53)	21.4 (0.84)	8.5
SGD-6/350-RY681	350	6 (0.236)	3.1 (0.122)	13.4 (0.53)	21.4 (0.84)	14
ENCAPSULATED WITH SOLDER PADS—MATCHED TO ALUMINUM						
SGD-1/120-RY683	120	1.6 (0.063)	1.7 (0.067)	6.8 (0.27)	10.5 (0.41)	4
SGD-1/350-RY683	350	1.6 (0.063)	2.1 (0.083)	6.8 (0.27)	10.5 (0.41)	8.5
SGD-3/120-RY683	120	3 (0.118)	1.7 (0.067)	8.3 (0.33)	13 (0.51)	6
SGD-3/350-RY683	350	3 (0.118)	2.1 (0.083)	8.3 (0.33)	13 (0.51)	12
SGD-6/120-RY683	120	6 (0.236)	3.2 (0.126)	13.4 (0.53)	21.4 (0.84)	12
SGD-6/350-RY683	350	6 (0.236)	3.1 (0.122)	13.4 (0.53)	21.4 (0.84)	20

* For dimensions key, visit us online. ** For accessory terminal pads, visit us online.

Ordering Example: SGD-1/120-RY683, 120 Ω nominal-resistance strain gage.

2-ELEMENT, 90° BIAxIAL STRAIN GAGES

To Order



Typical gage pattern.

Visit us online, for selection guide and exact pattern. Open-face gages available. Consult Pressure Sales and Engineering.

Custom-Designed Strain Gages Available!
No Minimum Quantities. Consult Engineering.

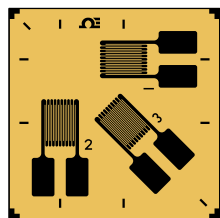
MODEL NO. Pkg of 5	NOM. RESISTANCE (Ω)	DIMENSIONS mm (inch)*				MAX PERMITTED BRIDGE ENERGIZING VOLTAGE (Vrms)
		GRID		CARRIER		
		A	B	C	D	
ENCAPSULATED WITH LEADS—MATCHED TO STEEL						
SGD-1/120-RYB21	120	1.6 (0.063)	1.7 (0.067)	9.3 (0.37)	9.3 (0.37)	3
SGD-1/350-RYB21	350	1.6 (0.063)	2.1 (0.083)	9.3 (0.37)	9.3 (0.37)	6
SGD-3/120-RYB21	120	3 (0.118)	1.7 (0.067)	11 (0.43)	11 (0.43)	4.5
SGD-3/350-RYB21	350	3 (0.118)	2.1 (0.083)	11 (0.43)	11 (0.43)	8.5
SGD-6/120-RYB21	120	6 (0.236)	3.2 (0.126)	16.3 (0.64)	16.3 (0.64)	8.5
SGD-6/350-RYB21	350	6 (0.236)	3.1 (0.122)	16.3 (0.64)	16.3 (0.64)	14
ENCAPSULATED WITH LEADS—MATCHED TO ALUMINUM						
SGD-1/120-RYB23	120	1.6 (0.063)	1.7 (0.067)	9.3 (0.37)	9.3 (0.37)	4
SGD-1/350-RYB23	350	1.6 (0.063)	2.1 (0.083)	9.3 (0.37)	9.3 (0.37)	8.5
SGD-3/120-RYB23	120	3 (0.118)	1.7 (0.067)	11 (0.43)	11 (0.43)	6
SGD-3/350-RYB23	350	3 (0.118)	2.1 (0.083)	11 (0.43)	11 (0.43)	12
SGD-6/120-RYB23	120	6 (0.236)	3.2 (0.126)	16.3 (0.64)	16.3 (0.64)	12
SGD-6/350-RYB23	350	6 (0.236)	3.1 (0.122)	16.3 (0.64)	16.3 (0.64)	20
ENCAPSULATED WITH SOLDER PADS—MATCHED TO STEEL						
SGD-1/120-RYB81	120	1.6 (0.063)	1.7 (0.067)	9.3 (0.37)	9.3 (0.37)	3
SGD-1/350-RYB81	350	1.6 (0.063)	2.1 (0.083)	9.3 (0.37)	9.3 (0.37)	6
SGD-3/120-RYB81	120	3 (0.118)	1.7 (0.067)	11 (0.43)	11 (0.43)	4.5
SGD-3/350-RYB81	350	3 (0.118)	2.1 (0.083)	11 (0.43)	11 (0.43)	8.5
SGD-6/120-RYB81	120	6 (0.236)	3.2 (0.126)	16.3 (0.64)	16.3 (0.64)	8.5
SGD-6/350-RYB81	350	6 (0.236)	3.1 (0.122)	16.3 (0.64)	16.3 (0.64)	14
ENCAPSULATED WITH SOLDER PADS—MATCHED TO ALUMINUM						
SGD-1/120-RYB83	120	1.6 (0.063)	1.7 (0.067)	9.3 (0.37)	9.3 (0.37)	4
SGD-1/350-RYB83	350	1.6 (0.063)	2.1 (0.083)	9.3 (0.37)	9.3 (0.37)	8.5
SGD-3/120-RYB83	120	3 (0.118)	1.7 (0.067)	11 (0.43)	11 (0.43)	6
SGD-3/350-RYB83	350	3 (0.118)	2.1 (0.083)	11 (0.43)	11 (0.43)	12
SGD-6/120-RYB83	120	6 (0.236)	3.2 (0.126)	16.3 (0.64)	16.3 (0.64)	12
SGD-6/350-RYB83	350	6 (0.236)	3.1 (0.122)	16.3 (0.64)	16.3 (0.64)	20

* For dimensions key, visit us online. ** For accessory terminal pads, visit us online.

Ordering Example: SGD-1/120-RYB83, 120 Ω nominal-resistance strain gage.

3-ELEMENT, 45°/90° STRAIN GAGES

To Order



Typical gage pattern.

Visit us online, for selection guide and exact pattern. Open-face gages available. Consult Pressure Sales and Engineering.

Custom-Designed Strain Gages Available!
No Minimum Quantities. Consult Engineering.

MODEL NO. Pkg of 5	NOM. RESISTANCE (Ω)	DIMENSIONS mm (inch)*				MAX PERMITTED BRIDGE ENERGIZING VOLTAGE (Vrms)
		GRID		CARRIER		
		A	B	C	D	
ENCAPSULATED WITH LEADS—MATCHED TO STEEL						
SGD-1/120-RYT21	120	1.6 (0.063)	1.7 (0.067)	9.3 (0.37)	9.3 (0.37)	3
SGD-1/350-RYT21	350	1.6 (0.063)	2.1 (0.083)	9.3 (0.37)	9.3 (0.37)	6
SGD-3/120-RYT21	120	3 (0.118)	1.7 (0.067)	11 (0.43)	11 (0.43)	4.5
SGD-3/350-RYT21	350	3 (0.118)	2.1 (0.083)	11 (0.43)	11 (0.43)	8.5
SGD-6/120-RYT21	120	6 (0.236)	3.2 (0.126)	16.3 (0.64)	16.3 (0.64)	8.5
SGD-6/350-RYT21	350	6 (0.236)	3.1 (0.122)	16.3 (0.64)	16.3 (0.64)	14
ENCAPSULATED WITH LEADS—MATCHED TO ALUMINUM						
SGD-1/120-RYT23	120	1.6 (0.063)	1.7 (0.067)	9.3 (0.37)	9.3 (0.37)	4
SGD-1/350-RYT23	350	1.6 (0.063)	2.1 (0.083)	9.3 (0.37)	9.3 (0.37)	8.5
SGD-3/120-RYT23	120	3 (0.118)	1.7 (0.067)	11 (0.43)	11 (0.43)	6
SGD-3/350-RYT23	350	3 (0.118)	2.1 (0.083)	11 (0.43)	11 (0.43)	12
SGD-6/120-RYT23	120	6 (0.236)	3.2 (0.126)	16.3 (0.64)	16.3 (0.64)	12
SGD-6/350-RYT23	350	6 (0.236)	3.1 (0.122)	16.3 (0.64)	16.3 (0.64)	20
ENCAPSULATED WITH SOLDER PADS—MATCHED TO STEEL						
SGD-1/120-RYT81	120	1.6 (0.063)	1.7 (0.067)	9.3 (0.37)	9.3 (0.37)	3
SGD-1/350-RYT81	350	1.6 (0.063)	2.1 (0.083)	9.3 (0.37)	9.3 (0.37)	6
SGD-3/120-RYT81	120	3 (0.118)	1.7 (0.067)	11 (0.43)	11 (0.43)	4.5
SGD-3/350-RYT81	350	3 (0.118)	2.1 (0.083)	11 (0.43)	11 (0.43)	8.5
SGD-6/120-RYT81	120	6 (0.236)	3.2 (0.126)	16.3 (0.64)	16.3 (0.64)	8.5
SGD-6/350-RYT81	350	6 (0.236)	3.1 (0.122)	16.3 (0.64)	16.3 (0.64)	14
ENCAPSULATED WITH SOLDER PADS—MATCHED TO ALUMINUM						
SGD-1/120-RYT83	120	1.6 (0.063)	1.7 (0.067)	9.3 (0.37)	9.3 (0.37)	4
SGD-1/350-RYT83	350	1.6 (0.063)	2.1 (0.083)	9.3 (0.37)	9.3 (0.37)	8.5
SGD-3/120-RYT83	120	3 (0.118)	1.7 (0.067)	11 (0.43)	11 (0.43)	6
SGD-3/350-RYT83	350	3 (0.118)	2.1 (0.083)	11 (0.43)	11 (0.43)	12
SGD-6/120-RYT83	120	6 (0.236)	3.2 (0.126)	16.3 (0.64)	16.3 (0.64)	12
SGD-6/350-RYT83	350	6 (0.236)	3.1 (0.122)	16.3 (0.64)	16.3 (0.64)	20

* For dimensions key, visit us online. ** For accessory terminal pads, visit us online.

Ordering Example: SGD-1/120-RYT83, 120 Ω nominal-resistance strain gage.