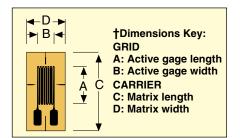
TRANSDUCER QUALITY STRAIN GAGE LINEAR PATTERN STRAIN GAGES

The linear pattern strain gages are used to measure strain in a single direction. They are used for experimental stress analysis, and transducer applications. The strain gage pattern is shown on the left side of the table. The "arrows" indicate the principal stress direction of the gage. OMEGA offers miniature linear patterns for strain measurement of a stress concentration or high gradient areas, and larger sizes. The solder pads/ribbon leads are offered both at one end of the grid, or with one at each end of the grid. Wide or narrow linear grid patterns are available.

Dimensions are listed for pattern gage grid length (A) and width (B), and the matrix or carrier length (C) and width (D). The patterns include alignment triangles.

Note: To determine if the strain gages have temperature characteristics matched to steel or aluminum, see the column labeled "COMP" short for compensation, "ST" indicates steel, "AL" indicates aluminum. See the column labeled "BTP" for accessory bondable terminal pad model numbers.

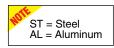


To Order										
	MODEL NO. Pkg of 5		DIMENSIONS mm (inch) [†]						V	isit us or
GAGE PATTERN Leads not shown		NOM. RESIS-	GRID		CARRIER					
		TANCE (Ω)	A	В	С	D	MAX V* (Vrms)	TERMINATION	TEMP COMP	TERM PAD
Shown actual size 4 mm	SGT-1/350-TY11	350	1.0	1.8	4.0 3.0	4.5	Ribbon Leads	ST		
	SGT-1/350-TY13	350	(0.039) (0.071) (0.157) (0.118) Miniature linear pattern, measurement of stress concentration				6	Ribbon Leads	AL	BPT-1
	SGT-1/350-TY41	350					4.5	Solder Pads	ST	
	SGT-1/350-TY43	350		350	0 Ω		6	Solder Pads	AL	
Shown actual size, 5.6 mm	SGT-1A/1000-TY11	1000	1.5 (0.05		5.6) (0.22) (5.6 4.1 0.22) (0.161)	11	Ribbon Leads	ST	
	SGT-1A/1000-TY13	1000	Miniature linear pattern, grid width, wide, higher resistance, reduced heat generation				15	Ribbon Leads	AL	BPT-1
	SGT-1A/1000-TY41	1000					11	Solder Pads	ST	
	SGT-1A/1000-TY43	1000		100	Ω Ω		15	Solder Pads	AL	
Shown actual size, 6.4 mm	SGT-2C/350-TY11	350	1.5	4.6	6.4 6.4		9	Ribbon Leads	ST	BPT-2
	SGT-2C/350-TY13	350	(0.059) (0.181)	(0.252)	0.252) (0.252)		Ribbon Leads	AL	
	SGT-2C/350-TY41	350	Miniature linear pattern, grid width, extra wide $350~\Omega$				9	Solder Pads	ST	
	SGT-2C/350-TY43	350					12	Solder Pads	AL	
Shown actual size, 8.8 mm	SGT-3E/350-TY11	350	3.0	3.1	8.8 5.5 (0.346) (0.217) ar pattern, ch side of grid) Ω	10	Ribbon Leads	ST	BPT-2	
	SGT-3E/350-TY13	350	(0.118	3) (0.122)		14	Ribbon Leads	AL		
	SGT-3E/350-TY41	350		pad at ea		10	Solder Pads	ST		
←	SGT-3E/350-TY43	350					14	Solder Pads	AL	

DISCOUNT SCHEDULE
1 to 10 pkgs Ne
11 to 24 pkgs
25 to 49 pkgs
1 to 10 pkgs

* Maximum permitted bridge energizing voltage (Vrms). **Note:** For strain gage accessories, visit us online.

Ordering Example: SGT-3E/350-TY41, 350 Ω transducer quality uniaxial strain gage.



TRANSDUCER QUALITY STRAIN GAGE LINEAR PATTERN STRAIN GAGES

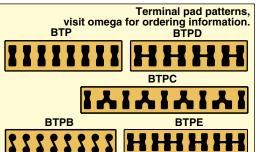
BONDABLE TERMINAL PADS

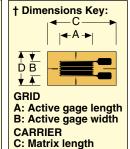
When installing strain gages with ribbon leads or solder pads, use Bondable Terminal Pads (BTP) between the strain gage and the wires to your instrumentation.

The Bondable Terminal Pads provide a large easy to use soldering area and provide strain relief between the strain gage and the heavy instrument wires.

Using Bondable Terminal Pads is simple. Use the same adhesive and bonding procedure on the Bondable Terminal Pads as you use on the strain gage.

OMEGA offers BTPs in several sizes and wiring configurations to fit most all strain gage applications.





D: Matrix width

To Order										
					NSIONS (inch) [†]				V	isit us onl
			GRID		CARRIER					
GAGE PATTERN Leads not shown	MODEL NO. Pkg of 5	TANCE (Ω)	A	В	С	D	MAX V* (Vrms)	TERMINATION	TEMP COMP	TERM PAD
Shown actual size 7.5 mm	SGT-3F/350-TY11	350					4.5	Ribbon Leads	ST	
	SGT-3F/350-TY13	350	3.2 3.2 7.5 4.6 (0.126) (0.126) (0.295) (0.181) Medium linear pattern 350 Ω				6	Ribbon Leads	AL	BPT-3
	SGT-3F/350-TY41	350					10	Solder Pads	ST	
	SGT-3F/350-TY43	350		35	0 22		14	Solder Pads	AL	
Shown actual size 8.6 mm	SGT-3J/350-TY11	350	3.0 2.1 8.6 3.5 (0.118) (0.083) (0.339) (0.138) Medium linear pattern, lead/pad at each end of grid 350 Ω				8	Ribbon Leads	ST	BPT-3
	SGT-3J/350-TY13	350					12	Ribbon Leads	AL	
	SGT-3J/350-TY41	350					8	Solder Pads	ST	
	SGT-3J/350-TY43	350		33	0 22		12	Solder Pads	AL	
Shown actual size 6.6 mm	SGT-3S/350-TY11	350	3.0 1.7 6.6 3.3 (0.118) (0.067) (0.26) (0.13) Medium linear pattern, grid width, narrow 350 Ω				7.5	Ribbon Leads	ST	BPT-3
	SGT-3S/350-TY13	350					10.5	Ribbon Leads	AL	
	SGT-3S/350-TY41	350					7.5	Solder Pads	ST	
	SGT-3S/350-TY43	350					10.5	Solder Pads	AL	
Shown actual size 7 mm	SGT-3N/350-TY11	350	3.2	2.5	7.0 4.0) (0.28) (0.157) ear pattern,	8	Ribbon Leads	ST	BPT-3	
	SGT-3N/350-TY13	350	(0.11	8) (0.067		13	Ribbon Leads	AL		
	SGT-3N/350-TY41	350	both leads/pads at one end of grid				8	Solder Pads	ST	
← →	SGT-3N/350-TY43	350	350 Ω				13	Solder Pads	AL	

DISCOUNT SCHEDULE						
1 to 10 pkgs						
11 to 24 pkgs5%						
25 to 49 pkgs						
50 and up and OEM Consult Factory						

^{*} Maximum permitted bridge energizing voltage (Vrms). **Note:** For strain gage accessories, visit us online. **Ordering Example: SGT-3J/350-TY41**, 350 Ω transducer quality uniaxial strain gage.

