



General Purpose Strain Gages - Delta Rosettes

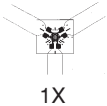
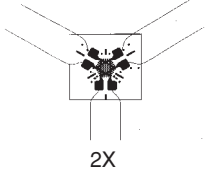
FEATURES



- Gage patterns designed for determining principle stresses and strains
- All patterns have three grids orientated at 0°, 60° and 120° angles
- Both stacked and planar constructions available
- Gage lengths from 0.015 in (0.38mm) to 0.500 in (12.7mm)

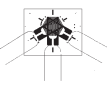
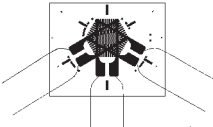
GAGE PATTERN <small>Actual size shown. Enlarged when necessary for definition.</small>		GAGE DESIGNATION Insert desired S-T-C number in spaces marked XX.	RES. IN OHMS Tolerance is increased when Option W, E, SE, LE, or P is specified.	OPTIONS AVAILABLE
ES = Each section CP = Complete pattern S = Section (S1= Sec 1) M = Matrix <div style="float: right; border: 1px solid black; padding: 2px;"> inch millimeter </div>				
015YC 		Micro-miniature three-element 60° delta rosette with one tab common to all sections. See also 015YD pattern. Note: See Strip Patterns datasheet for discussion of common-tab gages.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	
0.015 ES	0.063 CP	0.020 ES	0.140 CP	
0.38 ES	1.60 CP	0.51 ES	3.56 CP	
MATRIX SIZE	0.15L x 0.18W	3.8L x 4.6W		
		EA-XX-015YC-120 SA-XX-015YC-120	120 ± 0.6% 120 ± 1.0%	E, SE
015YD 		Micro-miniature three-element 60° delta rosette. Similar to 015YC pattern except each section has separate tabs for electrical isolation.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	
0.015 ES	0.063 CP	0.020 ES	0.140 CP	
0.38 ES	1.60 CP	0.51 ES	3.56 CP	
MATRIX SIZE	0.15L x 0.18W	3.8L x 4.6W		
		EA-XX-015YD-120 SA-XX-015YD-120	120 ± 0.6% 120 ± 1.0%	E, SE

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030WY				Miniature three-element 60° delta stacked rosette.			
 1X				 2X			
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	WA-XX-030WY-120 WK-XX-030WY-120 SA-XX-030WY-120 SK-XX-030WY-120	120 ± 0.8% 120 ± 0.8% 120 ± 0.8% 120 ± 0.8%		
0.030 ES	0.17 M	0.030 ES	0.19 M				
0.76 ES	4.3 M	0.76 ES	4.8 M				
MATRIX SIZE	0.17L x 0.19W		4.3L x 4.8W				

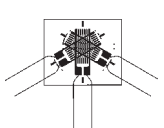
030YB				Miniature three-element 60° delta single-plane rosette.			
 1X				 4X			
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	EA-XX-030YB-120 SA-XX-030YB-120	120 ± 0.4% 120 ± 0.8%	E, SE	
0.030 ES	0.104 CP	0.030 ES	0.200 CP				
0.76 ES	2.64 CP	0.76ES	5.08 CP				
MATRIX SIZE	0.21L x 0.27W		5.3L x 6.9W				


060WY				Small three-element 60° delta stacked rosette.			
 1X				 2X			
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	WA-XX-060WY-120 WK-XX-060WY-120 WK-XX-060WY-350 WK-XX-060WY-10C SA-XX-060WY-120 SK-XX-060WY-120 SK-XX-060WY-350 SK-XX-060WY-10C	120 ± 0.5% 120 ± 0.5% 350 ± 0.5% 1000 ± 0.5% 120 ± 0.5% 120 ± 0.5% 350 ± 0.5% 1000 ± 0.5%		
0.060 ES	0.24 M	0.060 ES	0.30 M				
1.52 ES	6.1 M	1.52 ES	7.6 M				
MATRIX SIZE	0.24L x 0.30W		6.1L x 7.6W				

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062YE				Small 60° delta single-plane rosette. Normally used in the EA Series with Option W.		
						
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.062 ES	0.150 CP	0.062 ES	0.400 CP			
1.57 ES	3.81 CP	1.57 ES	10.16 CP			
MATRIX SIZE	0.26L x 0.47W		6.6L x 11.9W	EA-XX-062YE-350 SA-XX-062YE-350	350 ± 0.2% 350 ± 0.4%	W, E


120WY				Three-element 60° delta stacked rosette.			
							
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH				
0.120 ES	0.34 M	0.080 ES	0.40 M				
3.05 ES	8.6 M	2.03 ES	10.2 M				
MATRIX SIZE	0.34L x 0.40W		8.6L x 10.2W	WA-XX-120WY-120 WA-XX-120WY-350 WD-DY-120WY-350 WK-XX-120WY-120 WK-XX-120WY-350 SA-XX-120WY-120 SA-XX-120WY-350 SK-XX-120WY-120 SK-XX-120WY-350 SD-DY-120WY-350	120 ± 0.5% 350 ± 0.5% 350 ± 0.5% 120 ± 0.5% 350 ± 0.5% 120 ± 0.5% 350 ± 0.5% 120 ± 0.5% 350 ± 0.5% 350 ± 0.5%		


125UY				Three-element 60° delta single-plane rosette.		
						
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.125 ES	0.375 CP	0.062 ES	0.375 CP			
3.18 ES	9.53 CP	1.57 ES	9.53 CP			
MATRIX SIZE	0.50L x 0.44W		12.7L x 11.2W	CEA-XX-125UY-120 CEA-XX-125UY-350	120 ± 0.4% 350 ± 0.4%	CEA-Series Strain Gages feature large copper solder tabs and a completely encapsulated grid.

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125YA 				Compact three-element 60° delta rosette with large solder tabs.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.125 ES	0.375 CP	0.062 ES	0.375 CP			
3.18 ES	9.53 CP	1.57 ES	9.53 CP	EA-XX-125YA-120 EP-08-125YA-120 SA-XX-125YA-120 SK-XX-125YA-350	120 ± 0.2% 120 ± 0.2% 120 ± 0.4% 350 ± 0.4%	
MATRIX SIZE	0.55L x 0.45W		14.0L x 11.4W			
					L, LE	

125YF 				Three-element 60° delta rosette with high-resistance grid. Designed particularly for use with Option W in the EA Series.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.125 ES	0.283 CP	0.060 ES	0.620 CP			
3.18 ES	7.19 CP	1.52 ES	15.75 CP	EA-XX-125YF-350 WA-XX-125YF-350	350 ± 0.2% 350 ± 0.4%	
MATRIX SIZE	0.36L x 0.70W		9.1L x 17.8W			
					W W*	

250UY 				Three-element 60° delta single-plane rosette.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.250 ES	0.750 CP	0.125 ES	0.750 CP			
6.35 ES	19.05 CP	3.18 ES	19.05 CP	CEA-XX-250UY-120 CEA-XX-250UY-350	120 ± 0.4% 350 ± 0.4%	
MATRIX SIZE	0.99L x 0.85W		25.1L x 21.6W			
					CEA-Series Strain Gages feature large copper solder tabs and a completely encapsulated grid.	

*Options available but not normally recommended. See Gage Series and Optional Features datasheet for details.

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250WY				Three-element 60° delta stacked rosette.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.250 ES	0.51 M	0.125 ES	0.60 M			
6.35 ES	13.0 M	3.18 ES	15.2 M			
MATRIX SIZE	0.51L x 0.60W		13.0L x 15.2W	WA-XX-250WY-120 120 ± 0.5% WA-XX-250WY-350 350 ± 0.5% WD-DY-250WY-350 350 ± 0.5% WK-XX-250WY-120 120 ± 0.5% WK-XX-250WY-350 350 ± 0.5% SA-XX-250WY-120 120 ± 0.5% SA-XX-250WY-350 350 ± 0.5% SK-XX-250WY-120 120 ± 0.5% SK-XX-250WY-350 350 ± 0.5% SD-DY-250WY-350 350 ± 0.5%		

250YA				Three-element 60° delta single-plane rosette.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.250 ES	0.750 CP	0.125 ES	0.750 CP			
6.35 ES	19.05 CP	3.18 ES	19.05 CP			
MATRIX SIZE	0.99L x 0.85W		25.1L x 21.6W	EA-XX-250YA-120 120 ± 0.2% EP-08-250YA-120 120 ± 0.2% SA-XX-250YA-120 120 ± 0.4% SK-XX-250YA-350 350 ± 0.4%	L, LE	

500WY				Three-element 60° delta stacked rosette.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.500 ES	0.76 M	0.120 ES	0.84 M			
12.70 ES	19.3 M	3.05 ES	21.3 M			
MATRIX SIZE	0.76L x 0.84W		19.3L x 21.3W	WA-XX-500WY-120 120 ± 0.5% WA-XX-500WY-350 350 ± 0.5% WD-DY-500WY-350 350 ± 0.5% WK-XX-500WY-350 350 ± 0.5% SA-XX-500WY-120 120 ± 0.5% SA-XX-500WY-350 350 ± 0.5% SK-XX-500WY-350 350 ± 0.5% SD-DY-500WY-350 350 ± 0.5%		