




## General Purpose Strain Gages - Rectangular Rosettes

### FEATURES

- Gage patterns designed for determining principle stresses and strains
- All patterns have three grids orientated at 0°, 45° and 90° angles
- Both stacked and planar constructions available
- Gage lengths from 0.015 in (0.38 mm) to 0.500 in (12.7 mm)

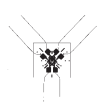
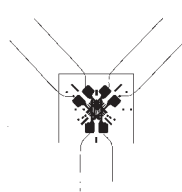
GAGE PATTERN <small>Actual size shown. Enlarged when necessary for definition.</small>		GAGE DESIGNATION	RES. IN OHMS	OPTIONS AVAILABLE
ES = Each section S = Section (S1 = Sec 1) M = Matrix	CP = Complete pattern	Insert desired S-T-C number in spaces marked XX.	Tolerance is increased when Option W, E, SE, LE, or P is specified.	


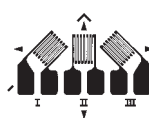
<div>015RC</div> <div></div> <div></div>				<div>Micro-miniature three-element 45° rosette with one tab common to all sections. See also 015RJ pattern. Note: See Strip Patterns datasheet for discussion of common-tab gages.</div>		
<div>1X</div> <div>6X</div>				<div>EA-XX-015RC-120 SA-XX-015RC-120</div>	<div>120 ± 0.6% 120 ± 1.0%</div>	<div>E, SE</div>
<div>GAGE LENGTH</div>	<div>OVERALL LENGTH</div>	<div>GRID WIDTH</div>	<div>OVERALL WIDTH</div>			
<div>0.015 ES</div>	<div>0.070 CP</div>	<div>0.020 ES</div>	<div>0.140 CP</div>			
<div>0.38 ES</div>	<div>1.78 CP</div>	<div>0.51 ES</div>	<div>3.56 CP</div>			
<div>MATRIX SIZE</div>		<div>0.18L x 0.23W</div>		<div>4.6L x 5.8W</div>		

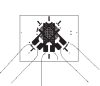
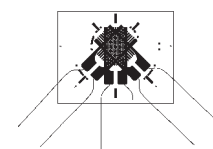
<div>015RJ</div> <div></div> <div>1X6X</div>				<div>Micro-miniature three-element 45° rosette. Similar to 015RC pattern except each section has separate tabs for electrical isolation.</div>		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	EA-XX-015RJ-120 SA-XX-015RJ-120	120 ± 0.6% 120 ± 1.0%	E, SE
0.015 ES	0.070 CP	0.020 ES	0.140 CP			
0.38 ES	1.78 CP	0.51 ES	3.56 CP			
MATRIX SIZE	0.19L x 0.23W		4.8L x 5.8W			

### General Purpose Strain Gages - Rectangular Rosettes

GAGE PATTERN		Actual size shown. Enlarged when necessary for definition.		GAGE DESIGNATION	RES. IN OHMS	OPTIONS AVAILABLE
ES = Each section S = Section (S1= Sec 1) M = Matrix		<div>inch</div> <div>millimeter</div>		Insert desired S-T-C number in spaces marked XX.	Tolerance is increased when Option W, E, SE, LE, or P is specified.	


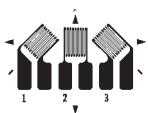
<b>030WR</b>				Miniature three-element 45° rectangular stacked rosette.		
<div><div></div><div></div></div>						
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	WA-XX-030WR-120 WK-XX-030WR-120 SA-XX-030WR-120 SK-XX-030WR-120	120 ± 0.8% 120 ± 0.8% 120 ± 0.8% 120 ± 0.8%	
0.030 ES	0.18 M	0.030 ES	0.19 M			
0.76 ES	4.4 M	0.76 ES	4.8 M			
MATRIX SIZE	0.18L x 0.19W		4.4L x 4.8W			

<b>031RB</b>				Miniature 45° rectangular single-plane rosette with compact geometry.		
<div><div></div><div></div></div>						
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	EA-XX-031RB-120 EP-08-031RB-120 SA-XX-031RB-120	120 ± 0.4% 120 ± 0.4% 120 ± 0.8%	E, SE, L, LE
0.031 ES	0.085 CP	0.031 ES	0.175 CP			
0.79 ES	2.16 CP	0.79 ES	4.45 CP			
MATRIX SIZE	0.19L x 0.24W		4.8L x 6.1W			

<b>060WR</b>				Small three-element 45° rectangular stacked rosette.		
<div><div></div><div></div></div>						
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	WA-XX-060WR-120 WK-XX-060WR-120 WK-XX-060WR-350 WK-XX-060WR-10C SA-XX-060WR-120 SK-XX-060WR-120 SK-XX-060WR-350 SK-XX-060WR-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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GAGE PATTERN <small>Actual size shown. Enlarged when necessary for definition.</small>		GAGE DESIGNATION <small>Insert desired S-T-C number in spaces marked XX.</small>	RES. IN OHMS <small>Tolerance is increased when Option W, E, SE, LE, or P is specified.</small>	OPTIONS AVAILABLE
ES = Each section S = Section (S1= Sec 1)	CP = Complete pattern M = Matrix	inch millimeter		

<div>062RB</div> <div><div></div><div></div></div> <div>1X2X</div>				<div>Small 45° rectangular single-plane rosette with compact geometry. See also 062RG and 062UR patterns.</div>		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	<div>EA-XX-062RB-120 WA-XX-062RB-120 WK-XX-062RB-350 EP-08-062RB-120 SA-XX-062RB-120 SK-XX-062RB-350</div>	<div>120 ± 0.2% 120 ± 0.4% 350 ± 0.4% 120 ± 0.2% 120 ± 0.4% 350 ± 0.4%</div>	<div>E, L, LE W* W*</div>
0.062 ES	0.171 CP	0.062 ES	0.300 CP			
1.57 ES	4.34 CP	1.57 ES	7.62 CP			
MATRIX SIZE	0.42L x 0.46W		10.7L x 11.7W			


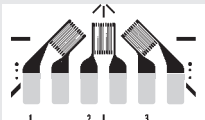
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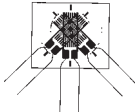
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
\*Options available but not normally recommended. See Gage Series and Optional Features datasheet for details.

### General Purpose Strain Gages - Rectangular Rosettes

GAGE PATTERN		Actual size shown. Enlarged when necessary for definition.		GAGE DESIGNATION	RES. IN OHMS	OPTIONS AVAILABLE
ES = Each section S = Section (S1= Sec 1) M = Matrix		<div>inch</div> <div>millimeter</div>		Insert desired S-T-C number in spaces marked XX.	Tolerance is increased when Option W, E, SE, LE, or P is specified.	

062UR				‘C’ FEATURE		
<div><div></div><div></div></div> <div>1X2X</div>				Small 45° rectangular single-plane rosette in a compact geometry. Exposed solder tab area 0.07 x 0.04 in (1.8 x 1.0 mm).		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	CEA-Series Strain Gages feature large copper solder tabs and a completely encapsulated grid.  Available with Option P2 (preattached leadwire cables).		
0.062 ES	0.222 CP	0.062 ES	0.420 CP			
1.57 ES	5.64 CP	1.57 ES	10.67 CP			
MATRIX SIZE	0.32L x 0.48W		8.1L x 12.2W			
				CEA-XX-062UR-120	120 ± 0.4%	
				CEA-XX-062UR-350	350 ± 0.4%	


120WR				Three-element 45° rectangular stacked rosette.				
<div></div>				WA-XX-120WR-120 WA-XX-120WR-350 WD-DY-120WR-350 WK-XX-120WR-120 WK-XX-120WR-350 SA-XX-120WR-120 SA-XX-120WR-350 SK-XX-120WR-120 SK-XX-120WR-350 SD-DY-120WR-350				
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH				120 ± 0.5%	W
0.120 ES	0.34 M	0.080 ES	0.40 M				350 ± 0.5%	W
3.05 ES	8.6 M	2.03 ES	10.2 M				350 ± 0.5%	W*
MATRIX SIZE	0.34L x 0.40W		8.6L x 10.2W	120 ± 0.5%	W	W		
				350 ± 0.5%				


125RA				General-purpose three-element 45° rectangular rosette. Compact geometry. See also 125RD and 125UR patterns. EK-Series gages are supplied with duplex copper pads (DP) when optional feature W or SE is not specified.				
<div></div>				EA-XX-125RA-120 EK-XX-125RA-350 WA-XX-125RA-120 WK-XX-125RA-350 EP-08-125RA-120 SA-XX-125RA-120 SK-XX-125RA-350				
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH				120 ± 0.2%	W, E, L, LE
0.125 ES	0.275 CP	0.062 ES	0.424 CP				350 ± 0.2%	W, SE
3.18 ES	6.99 CP	1.57 ES	10.77 CP				120 ± 0.4%	W*
MATRIX SIZE	0.39L x 0.46W		9.9L x 11.7W	350 ± 0.4%	W*			
				120 ± 0.4%				

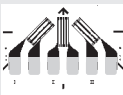
\*Options available but not normally recommended. See Gage Series and Optional Features datasheet for details.

## General Purpose Strain Gages - Rectangular Rosettes

GAGE PATTERN <small>Actual size shown. Enlarged when necessary for definition.</small>		GAGE DESIGNATION <small>Insert desired S-T-C number in spaces marked XX.</small>	RES. IN OHMS <small>Tolerance is increased when Option W, E, SE, LE, or P is specified.</small>	OPTIONS AVAILABLE
ES = Each section S = Section (S1= Sec 1)	CP = Complete pattern M = Matrix	<div>inch</div> <div>millimeter</div>		

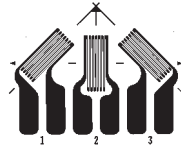
<b>125RD</b> 				General-purpose three-element 45° rectangular rosette. Similar to 125RA pattern except for grid resistance. See also 125RS and 125UR patterns.		
<b>GAGE LENGTH</b>	<b>OVERALL LENGTH</b>	<b>GRID WIDTH</b>	<b>OVERALL WIDTH</b>	EA-XX-125RD-350 WA-XX-125RD-350 SA-XX-125RD-350	350 ± 0.2% 350 ± 0.4% 350 ± 0.4%	E, L, LE
0.125 ES	0.275 CP	0.062 ES	0.424 CP			
3.18 ES	6.99 CP	1.57 ES	10.77 CP			
<b>MATRIX SIZE</b>	0.40L x 0.47W		10.1L x 11.9W			

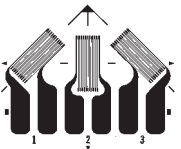
<b>125RS</b> 				Three-element 45° rectangular rosette with high-resistance grid. Similar to 125RD pattern but designed particularly for use with Option W in the EA Series. See also 125UR pattern.		
<b>GAGE LENGTH</b>	<b>OVERALL LENGTH</b>	<b>GRID WIDTH</b>	<b>OVERALL WIDTH</b>	EA-XX-125RS-350 WA-XX-125RS-350	350 ± 0.2% 350 ± 0.4%	W W*
0.125 ES	0.245 CP	0.060 ES	0.620 CP			
3.18 ES	6.22 CP	1.52 ES	15.75 CP			
<b>MATRIX SIZE</b>	0.34L x 0.70W		8.6L x 17.8W			

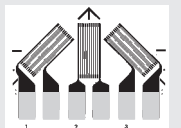
<b>125UR</b> <div>'C' FEATURE</div> 				General-purpose 45° single-plane rosette. Compact geometry. Exposed solder tab area 0.08 x 0.06 in (2.0 x 1.5 mm).		
<b>GAGE LENGTH</b>	<b>OVERALL LENGTH</b>	<b>GRID WIDTH</b>	<b>OVERALL WIDTH</b>	CEA-XX-125UR-120 CEA-XX-125UR-350	120 ± 0.4% 350 ± 0.4%	CEA-Series Strain Gages feature large copper solder tabs and a completely encapsulated grid.  Available with Option P2 (preattached leadwire cables).
0.125 ES	0.300 CP	0.060 ES	0.560 CP			
3.18 ES	7.62 CP	1.52 ES	14.22 CP			
<b>MATRIX SIZE</b>	0.42L x 0.62W		10.7L x 15.7W			

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

### General Purpose Strain Gages - Rectangular Rosettes

GAGE PATTERN		Actual size shown. Enlarged when necessary for definition.		GAGE DESIGNATION	RES. IN OHMS	OPTIONS AVAILABLE
ES = Each section S = Section (S1= Sec 1) M = Matrix		<div>inch</div> <div>millimeter</div>		Insert desired S-T-C number in spaces marked XX.	Tolerance is increased when Option W, E, SE, LE, or P is specified.	
<div>250RA</div> <div></div>				Large three-element 45° rectangular rosette with convenient solder tab arrangement. See also 250RD and 250UR patterns.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	EA-XX-250RA-120 WA-XX-250RA-120 WK-XX-250RA-350 EP-08-250RA-120 SA-XX-250RA-120 SK-XX-250RA-350	120 ± 0.2% 120 ± 0.4% 350 ± 0.4% 120 ± 0.2% 120 ± 0.4% 350 ± 0.4%	W, E, L, LE W* W*
0.250 ES	0.550 CP	0.125 ES	0.847 CP			
6.35 ES	13.97 CP	3.18 ES	21.51 CP			
MATRIX SIZE	0.78L x 0.93W		19.8L x 23.6W			

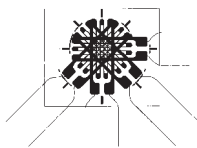
<div>250RD</div> <div></div>				Large three-element 45° rectangular rosette. Similar to the 250RA pattern except for resistance. See also 250UR pattern. EK-Series gages are supplied with duplex copper pads (DP) when optional feature W or SE is not specified.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	EA-XX-250RD-350 EK-XX-250RD-10C S2K-XX-250RD-10C WA-XX-250RD-350 WK-XX-250RD-10C EP-08-250RD-350 SA-XX-250RD-350 SK-XX-250RD-10C	350 ± 0.2% 1000 ± 0.2% 1000 ± 0.4% 350 ± 0.4% 1000 ± 0.4% 350 ± 0.2% 350 ± 0.4% 1000 ± 0.4%	W, E, L, LE W, SE W* W*
0.250 ES	0.550 CP	0.125 ES	0.847 CP			
6.35 ES	13.97 CP	3.18 ES	21.51 CP			
MATRIX SIZE	0.78L x 0.93W		19.8L x 23.6W			

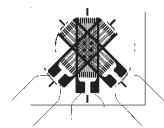
<div>250UR</div> <div><div>'C' FEATURE</div><div></div></div>				Large three-element 45° single-plane rosette. Exposed solder tab area 0.13 x 0.08 in (3.3 x 2.0 mm).		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	CEA-XX-250UR-120 CEA-XX-250UR-350	120 ± 0.4% 350 ± 0.4%	CEA-Series Strain Gages feature large copper solder tabs and a completely encapsulated grid.  Available with Option P2 (preattached leadwire cables).
0.250 ES	0.500 CP	0.120 ES	0.760 CP			
6.35 ES	12.70 CP	3.05 ES	19.30 CP			
MATRIX SIZE	0.65L x 0.80W		16.5L x 20.3W			

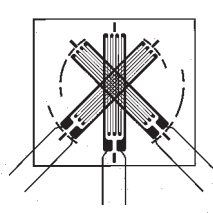
\*Options available but not normally recommended. See Gage Series and Optional Features datasheet for details.

## General Purpose Strain Gages - Rectangular Rosettes

GAGE PATTERN	Actual size shown. Enlarged when necessary for definition.		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 S = Section (S1= Sec 1)	CP = Complete pattern M = Matrix	inch millimeter		

<b>250WF</b> 				Four-element tee-rectangular stacked rosette. This is a 45° rectangular configuration with a fourth grid element at 90° to the center gage.	
<b>GAGE LENGTH</b>	<b>OVERALL LENGTH</b>	<b>GRID WIDTH</b>	<b>OVERALL WIDTH</b>	WA-XX-250WF-120	120 ± 0.5%
0.250 ES	0.51 M	0.125 ES	0.60 M	WA-XX-250WF-350	350 ± 0.5%
6.35 ES	13.0 M	3.18 ES	15.2 M	WD-DY-250WF-350	350 ± 0.5%
<b>MATRIX SIZE</b>	0.51L x 0.60W		13.0L x 15.2W	WK-XX-250WF-120	120 ± 0.5%
				WK-XX-250WF-350	350 ± 0.5%
				SA-XX-250WF-120	120 ± 0.5%
				SA-XX-250WF-350	350 ± 0.5%
				SK-XX-250WF-120	120 ± 0.5%
				SK-XX-250WF-350	350 ± 0.5%
				SD-DY-250WF-350	350 ± 0.5%

<b>250WR</b> 				Three-element 45° rectangular stacked rosette.	
<b>GAGE LENGTH</b>	<b>OVERALL LENGTH</b>	<b>GRID WIDTH</b>	<b>OVERALL WIDTH</b>	WA-XX-250WR-120	120 ± 0.5%
0.250 ES	0.51 M	0.125 ES	0.60 M	WA-XX-250WR-350	350 ± 0.5%
6.35 ES	13.0 M	3.18 ES	15.2 M	WD-DY-250WR-350	350 ± 0.5%
<b>MATRIX SIZE</b>	0.51L x 0.60W		13.0L x 15.2W	WK-XX-250WR-120	120 ± 0.5%
				WK-XX-250WR-350	350 ± 0.5%
				SA-XX-250WR-120	120 ± 0.5%
				SA-XX-250WR-350	350 ± 0.5%
				SK-XX-250WR-120	120 ± 0.5%
				SK-XX-250WR-350	350 ± 0.5%
				SD-DY-250WR-350	350 ± 0.5%

<b>500WR</b> 				Three-element 45° rectangular stacked rosette.	
<b>GAGE LENGTH</b>	<b>OVERALL LENGTH</b>	<b>GRID WIDTH</b>	<b>OVERALL WIDTH</b>	WA-XX-500WR-120	120 ± 0.5%
0.500 ES	0.76 M	0.120 ES	0.84 M	WA-XX-500WR-350	350 ± 0.5%
12.70 ES	19.3 M	3.05 ES	21.3 M	WD-DY-500WR-350	350 ± 0.5%
<b>MATRIX SIZE</b>	0.76L x 0.84W		19.3L x 21.3W	WK-XX-500WR-350	350 ± 0.5%
				SA-XX-500WR-120	120 ± 0.5%
				SA-XX-500WR-350	350 ± 0.5%
				SK-XX-500WR-350	350 ± 0.5%
				SD-DY-500WR-350	350 ± 0.5%

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