

## Leaded Strain Gages For General-Purpose Applications



### FEATURES

- Pre-attached ribbon leads for faster, easier gage installations
- Linear, shear, Tee- and rectangular-rosette patterns with polyimide encapsulation
- Low cost alternative for test temperatures to +250°F (+120°C)

### DESCRIPTION

Vishay Micro-Measurements L2A-Series strain gages are designed to save you time and money. The skill level necessary to make dependable installations is greatly reduced by the pre-attached leads. Further, installations of gages are simplified in difficult locations on components or in the field.

### SPECIFICATIONS

**Carrier Matrix:** The “L2” matrix provides an encapsulated gage with pre-attached leadwires on a thin, high-performance laminated polyimide film backing.


**Leadwires:** 1.2 in (30mm) long, 0.016 in (0.4mm) wide, and 0.002 in (0.05mm) thick nickel-clad copper ribbon attached with +430°F (+220°C) lead-free solder.

**Temperature Range:** -100 to +250°F (-75 to +120°C)

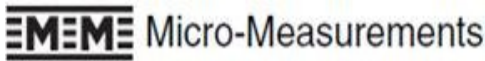
**Strain Range:** ± 3%

**Fatigue Life:** 10<sup>5</sup> cycles at ±1700 microstrain  
10<sup>6</sup> cycles at ±1500 microstrain

GAGE PATTERN	Images may not be shown at actual size.	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.	
	inch millimeter			

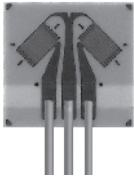
062LW				Widely used general-purpose gage.		
						
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.062	0.175	0.050	0.080			
MATRIX SIZE	0.252L x 0.170W		6.40L x 4.32W	L2A-XX-062LW-120	120 ± 0.6%	
				L2A-XX-062LW-350	350 ± 0.6%	

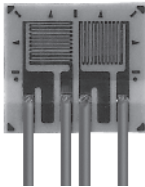
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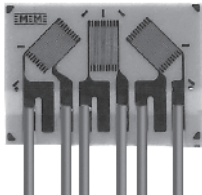


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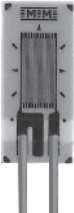
<b>062LV</b> 				Two-element 90° torque gage.		
<b>GAGE LENGTH</b>	<b>OVERALL LENGTH</b>	<b>GRID WIDTH</b>	<b>OVERALL WIDTH</b>			
0.062	0.214	0.050	0.215			
1.52	5.44	1.27	5.46			
<b>MATRIX SIZE</b>	0.255L x 0.265W		6.48L x 6.73W		L2A-XX-062LV-120	120 ± 0.6%

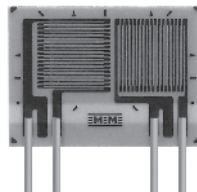
<b>062LT</b> 				General-purpose 90° rosette.		
<b>GAGE LENGTH</b>	<b>OVERALL LENGTH</b>	<b>GRID WIDTH</b>	<b>OVERALL WIDTH</b>			
0.062	0.164	0.070	0.170			
1.52	4.17	1.78	4.32			
<b>MATRIX SIZE</b>	0.210L x 0.290W		5.33L x 7.37W		L2A-XX-062LT-120 L2A-XX-062LT-350	120 ± 0.6% 350 ± 0.6%

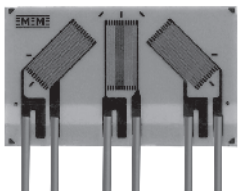
<b>062LR</b> 				Small 45° rectangular single-plane rosette.		
<b>GAGE LENGTH</b>	<b>OVERALL LENGTH</b>	<b>GRID WIDTH</b>	<b>OVERALL WIDTH</b>			
0.062	0.185	0.050	0.260			
1.52	4.70	1.27	6.60			
<b>MATRIX SIZE</b>	0.277L x 0.410W		7.04L x 10.41W		L2A-XX-062LR-120 L2A-XX-062LR-350	120 ± 0.6% 350 ± 0.6%

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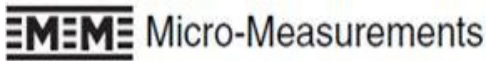
<b>GAGE PATTERN</b> Images may not be shown at actual size. ES = Each section    CP = Complete pattern S = Section (S1 = Sec 1) M = Matrix	inch millimeter	<b>GAGE DESIGNATION</b> Insert desired S-T-C number in spaces marked XX.	<b>RES. IN OHMS</b> Tolerance is increased when Option W, E, SE, LE, or P is specified.	<b>OPTIONS AVAILABLE</b>

<b>125LW</b> 				Widely used general-purpose gage.		
<b>GAGE LENGTH</b>	<b>OVERALL LENGTH</b>	<b>GRID WIDTH</b>	<b>OVERALL WIDTH</b>	L2A-XX-125LW-120 L2A-XX-125LW-350	120 ± 0.6% 350 ± 0.6%	
0.125	0.238	0.070	0.080			
3.18	8.05	1.78	2.03			
<b>MATRIX SIZE</b>	0.315L x 0.170W		8.00L x 4.32W			

<b>125LT</b> 				General-purpose 90° rosette.		
<b>GAGE LENGTH</b>	<b>OVERALL LENGTH</b>	<b>GRID WIDTH</b>	<b>OVERALL WIDTH</b>	L2A-XX-125LT-120 L2A-XX-125LT-350	120 ± 0.6% 350 ± 0.6%	
0.125	0.243	0.150	0.340			
3.18	6.17	3.81	8.64			
<b>MATRIX SIZE</b>	0.290L x 0.400W		7.37L x 10.16W			


<b>125LR</b> 				General-purpose 45° rectangular single-plane rosette.		
<b>GAGE LENGTH</b>	<b>OVERALL LENGTH</b>	<b>GRID WIDTH</b>	<b>OVERALL WIDTH</b>	L2A-XX-125LR-120 L2A-XX-125LR-350	120 ± 0.6% 350 ± 0.6%	
0.125	0.245	0.070	0.415			
3.18	6.22	1.78	10.54			
<b>MATRIX SIZE</b>	0.290L x 0.475W		7.37L x 12.06W			

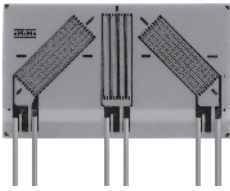
# L2A-Series Strain Gages



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<b>250LW</b>					Widely used general-purpose gage.		
<b>GAGE LENGTH</b>	<b>OVERALL LENGTH</b>	<b>GRID WIDTH</b>	<b>OVERALL WIDTH</b>		L2A-XX-250LW-120 L2A-XX-250LW-350	120 ± 0.6% 350 ± 0.6%	
0.250 6.35	0.363 9.22	0.100 2.54	0.100 2.54				
<b>MATRIX SIZE</b>	0.440L x 0.170W		11.18L x 4.32W				

<b>250LR</b>					General-Purpose 45° rectangular single-plane rosette.		
<b>GAGE LENGTH</b>	<b>OVERALL LENGTH</b>	<b>GRID WIDTH</b>	<b>OVERALL WIDTH</b>		L2A-XX-250LR-120 L2A-XX-250LR-350	120 ± 0.6% 350 ± 0.6%	
0.250 6.35	0.373 9.47	0.100 2.54	0.655 16.64				
<b>MATRIX SIZE</b>	0.420L x 0.715W		10.67L x 18.16W				