

Linear Patterns (General-Use)

FEATURES

- Gage patterns designed for measuring strain in a single direction
- Single-grid and parallel dual-grid patterns
- Gage lengths from 0.008" (0.20 mm) to 4.000" (101.6 mm)

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Document No.: 11068

Revision: 26-Aug-2015

General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA GAGE RESISTANCE **OPTIONS DESIGNATION** (OHMS) **AVAILABLE** See Note 3 See Note 1, 3 See Note 2 EA-XX-015DJ-120 $120 \pm 0.3\%$ L, LE $120 \pm 0.3\%$ EP-08-015DJ-120 $120 \pm 0.6\%$ SA-XX-015DJ-120 $120 \pm 0.6\%$ SK-XX-015DJ-120 actual size **DESCRIPTION** Micro-miniature pattern with tab at each end of grid. See also 015EH pattern. Legend inch **GAGE DIMENSIONS** ES = Each Section CP = Complete Pattern millimeter S = Section (S1 = Section 1)M = Matrix **Gage Length Overall Length Grid Width Overall Width Matrix Length Matrix Width** 0.015 0.100 0.020 0.020 0.23 0.12 0.38 2.54 0.51 0.51 5.8 3.0

GAGE SERIES DATA — See Gage Series datasheet for complete specifications					
Series	Description	Strain Range	Temperature Range		
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±3%	-100° to +350°F (-75° to +175°C)		
EP	Annealed constantan foil with tough, high-elongation polyimide backing.	±10%	-100° to +400°F (-75° to +205°C)		
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)		
SK	Fully encapsulated K-alloy gages with solder dots.	±1.5%	-452° to +450°F (-269° to +230°C)		

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.



GAGE PATTER	GAGE PATTERN DATA						
				GAG DESIGN	ATION	RESISTAN (OHMS)	
	•			See No	ote 1		
		a ctual s	size	L2A-XX-015 C2A-XX-015		120 ± 0.6	
				DESCRIPT Widely use		urpose gage	Pb-free RoHS COMPLIANT
GAGE DIN	GAGE DIMENSIONS				Complete Matrix	Pattern	inch millimeter
Gage Length	Overall Length	Grid Width	Over	all Width	Matrix	Length	Matrix Width
0.015	0.052	0.020	(0.034	0.0	75	0.054
0.38	1.32	0.50		0.86	1.9	90	1.37

GAGE SERIES DATA — See Gage Series datasheet for complete specifications					
Series	Description			Temperature Range	
C2A	Encapsulated constantan gages with prea	attached ready-to-use cables.	±3%	-60° to +180°F (-50° to +80°C)	
		A- 1	11-18	AL ST	
	Example of an		Example of		
	L2A Construction		C2A Construc	etion	

Note 1: Insert desired S-T-C number in spaces marked XX.



GAGE PATTERN DATA							
				GA(DESIGN		RESISTA (OHMS	-
100000					ote 1		
		actua	l size	CEA-XX-015	5UW-120	120 ± 0.	3%
1	•	I		solder tab	TION ature patte area is 0.06 ee also 0156	3 x 0.04 (1.	.5 x
GAGE DI	MENSIONS	ES = Each Secti S = Section (S	on	egend CP = on 1) M =	= Complete = Matrix	Pattern	inch millimeter
Gage Length	Overall Length	Grid Width	Over	all Width	Matrix	Length	Matrix Width
0.015	0.140	0.020	(0.105	0.2	24	0.18
0.38	3.56	0.51		2.67	6.	1	4.6

GAGE SERIES DATA — See Gage Series datasheet for complete specifications					
Series	Description Strain Range Temperature Range				
CEA	Universal general-purpose strain gages.	±3%	-100° to +350°F (-75° to +175°C)		

Note 1: Insert desired S-T-C number in spaces marked XX.



GAGE PATTERN DATA RESISTANCE **OPTIONS GAGE DESIGNATION** (OHMS) **AVAILABLE** See Note 1, 3 See Note 2 See Note 3 EA-XX-031CE-350 $350 \pm 0.2\%$ W, E, L, LE, **P** $350 \pm 0.4\%$ WA-XX-031CE-350 EP-XX-031CE-350 $350 \pm 0.2\%$ SA-XX-031CE-350 $350 \pm 0.4\%$ actual size **DESCRIPTION** General-purpose high-resistance miniature gage. Legend inch ES = Each Section CP = Complete Pattern **GAGE DIMENSIONS** millimeter S = Section (S1 = Section 1) M = Matrix Gage Length Overall Length **Grid Width Overall Width Matrix Length Matrix Width** 0.031 0.076 0.062 0.062 0.23 0.16 0.79 1.93 1.57 1.57 5.8 4.1

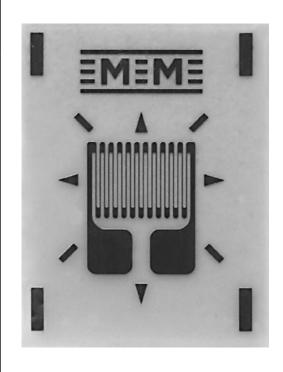
GAGE SERIES DATA — See Gage Series datasheet for complete specifications					
Series	Description	Strain Range	Temperature Range		
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±3%	-100° to +350°F (-75° to +175°C)		
WA	Fully encapsulated constantan gages with high-endurance leadwires.	±2%	-100° to +400°F (-75° to +205°C)		
EP	Annealed constantan foil with tough, high-elongation polyimide backing.	±10%	-100° to +400°F (-75° to +205°C)		
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)		

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.



GAGE PATTERN DATA





GAGE DESIGNATION	RESISTANCE (OHMS)	OPTIONS AVAILABLE
See Note 1, 3	See Note 2	See Note 3
EA-XX-031CF-120 ED-DY-031CF-350 WA-XX-031CF-120 WK-XX-031CF-350 EP-08-031CF-120 SA-XX-031CF-120 SK-XX-031CF-120 SK-XX-031CF-350 SD-DY-031CF-350	$120 \pm 0.2\%$ $350 \pm 0.4\%$ $120 \pm 0.4\%$ $350 \pm 0.4\%$ $120 \pm 0.2\%$ $120 \pm 0.4\%$ $120 \pm 0.4\%$ $350 \pm 0.4\%$ $350 \pm 0.8\%$	W, E, L, LE, P E, L*, LE*

DESCRIPTION

General-purpose miniature gage. Similar to 031CE pattern except for resistance. See also 032UW pattern.

GAGE DII	MENSIONS			= Complete Pattern = Matrix	inch millimeter
Gage Length	Overall Length	Grid Width	Overall Width	Matrix Length	Matrix Width
0.031	0.076	0.062	0.062	0.19	0.14
0.79	1.93	1.57	1.57	4.8	3.5

GAGE SERIES DATA — See Gage Series datasheet for complete specifications					
Series	Description	Strain Range	Temperature Range		
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±3%	-100° to +350°F (-75° to +175°C)		
ED	Isoelastic foil in combination with tough, flexible polyimide film.	±2%	-320° to +400°F (-195° to +205°C)		
WA	Fully encapsulated constantan gages with high-endurance leadwires.	±2%	-100° to +400°F (-75° to +205°C)		
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)		
EP	Annealed constantan foil with tough, high-elongation polyimide backing.	±10%	-100° to +400°F (-75° to +205°C)		
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)		
SK	Fully encapsulated K-alloy gages with solder dots.	±1.5%	-452° to +450°F (-269° to +230°C)		
SD	Equivalent to WD Series, but with solder dots instead of leadwires.	±1.5%	-320° to +400°F (-195° to +205°C)		

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



GAGE PATTERN DATA GAGE RESISTANCE **OPTIONS DESIGNATION** (OHMS) **AVAILABLE** See Note 1, 3 See Note 2 See Note 3 EA-XX-031DE-120 $120 \pm 0.2\%$ E, **SE**, L, LE EA-XX-031DE-350 $350 \pm 0.2\%$ E, SE, L, LE $350 \pm 0.4\%$ E, L*, LE* ED-DY-031DE-350 $120 \pm 0.4\%$ WA-XX-031DE-120 WA-XX-031DE-350 $350 \pm 0.4\%$ WK-XX-031DE-350 $350 \pm 0.4\%$ EP-XX-031DE-120 $120 \pm 0.2\%$ SA-XX-031DE-350 $350 \pm 0.4\%$ $350 \pm 0.4\%$ SA-XX-031DE-350 $120 \pm 0.4\%$ SK-XX-031DE-120 SK-XX-031DE-350 $350 \pm 0.4\%$ actual size SD-DY-031DE-350 $350 \pm 0.8\%$ **DESCRIPTION** General-purpose miniature gage. Legend inch **GAGE DIMENSIONS** ES = Each Section CP = Complete Pattern millimeter S = Section (S1 = Section 1)M = Matrix **Gage Length** Overall Length **Grid Width Overall Width Matrix Length** Matrix Width 0.140 0.032 0.032 0.031 0.27 0.12 0.79 3.56 0.81 0.81 6.9 3.0

GAGE SERIES DATA — See Gage Series datasheet for complete specifications					
Series	Description	Strain Range	Temperature Range		
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±3%	-100° to +350°F (-75° to +175°C)		
ED	Isoelastic foil in combination with tough, flexible polyimide film.	±2%	-320° to +400°F (-195° to +205°C)		
WA	Fully encapsulated constantan gages with high-endurance leadwires.	±2%	-100° to +400°F (-75° to +205°C)		
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)		
EP	Annealed constantan foil with tough, high-elongation polyimide backing.	±10%	-100° to +400°F (-75° to +205°C)		
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)		
SK	Fully encapsulated K-alloy gages with solder dots.	±1.5%	-452° to +450°F (-269° to +230°C)		
SD	Equivalent to WD Series, but with solder dots instead of leadwires.	±1.5%	-320° to +400°F (-195° to +205°C)		

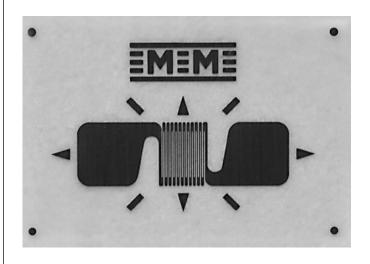
Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in bold are not RoHS compliant.



GAGE PATTERN DATA



GAGE DESIGNATION	RESISTANCE (OHMS)	OPTIONS AVAILABLE
See Note 1, 3	See Note 2	See Note 3
EA-XX-031EC-120 EA-XX-031EC-350 ED-DY-031EC-350 WA-XX-031EC-120 WA-XX-031EC-350 WK-XX-031EC-350 EP-08-031EC-120 SA-XX-031EC-120 SA-XX-031EC-350 SK-XX-031EC-120 SK-XX-031EC-350 SK-XX-031EC-350 SD-DY-031EC-350	$120 \pm 0.2\%$ $350 \pm 0.2\%$ $350 \pm 0.4\%$ $120 \pm 0.4\%$ $350 \pm 0.4\%$ $350 \pm 0.4\%$ $120 \pm 0.2\%$ $120 \pm 0.4\%$ $350 \pm 0.4\%$ $120 \pm 0.4\%$ $350 \pm 0.4\%$ $350 \pm 0.4\%$ $350 \pm 0.8\%$	E, SE, L, LE E, SE, L, LE E, L*, LE*

actual size

DESCRIPTION

General-purpose miniature gage. Similar to 031DE pattern but with tab at each side of grid.

GAGE DIM	MENSIONS	ES = Each Section (S1	ection CP = Complete Pattern (S1 = Section 1) M = Matrix		inch millimeter
Gage Length	Overall Length	Grid Width	Overall Width	Matrix Length	Matrix Width
0.031	0.042	0.032	0.140	0.17	0.23
0.79	1.07	0.81	3.56	4.3	5.8

GAGI	GAGE SERIES DATA — See Gage Series datasheet for complete specifications					
Series	Description	Strain Range	Temperature Range			
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±3%	-100° to +350°F (-75° to +175°C)			
ED	Isoelastic foil in combination with tough, flexible polyimide film.	±2%	-320° to +400°F (-195° to +205°C)			
WA	Fully encapsulated constantan gages with high-endurance leadwires.	±2%	-100° to +400°F (-75° to +205°C)			
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)			
EP	Annealed constantan foil with tough, high-elongation polyimide backing.	±10%	-100° to +400°F (-75° to +205°C)			
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)			
SK	Fully encapsulated K-alloy gages with solder dots.	±1.5%	-452° to +450°F (-269° to +230°C)			
SD	Equivalent to WD Series, but with solder dots instead of leadwires.	±1.5%	-320° to +400°F (-195° to +205°C)			

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

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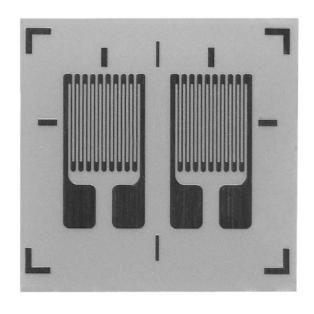
GAGE PATTERN DATA GAGE RESISTANCE **OPTIONS DESIGNATION** (OHMS) **AVAILABLE** See Note 2 See Note 1 CEA-XX-032UW-120 $120 \pm 0.3\%$ $350 \pm 0.3\%$ CEA-XX-032UW-350 P2 actual size **DESCRIPTION** General-purpose miniature gage. Exposed solder tab area is 0.07 x 0.04 in [1.8 x 1.0 mm]. Legend inch ES = Each Section **GAGE DIMENSIONS** CP = Complete Pattern millimeter S = Section (S1 = Section 1)M = Matrix **Gage Length Overall Length Grid Width Overall Width Matrix Length Matrix Width** 0.032 0.180 0.060 0.120 0.27 0.19 4.57 1.52 3.05 0.81 6.9 4.8

GAGE SERIES DATA — See Gage Series datasheet for complete specifications						
Series	Description	Strain Range	Temperature Range			
CEA	Universal general-purpose strain gages.	±3%	-100° to +350°F (-75° to +175°C)			

Note 1: Insert desired S-T-C number in spaces marked XX.



GAGE PATTERN DATA



GAGE DESIGNATION	RESISTANCE (OHMS)	OPTIONS AVAILABLE
See Note 1, 3	See Note 2	See Note 3
EA-XX-060PB-120	120 ± 0.2%	W, E, L, LE
EA-XX-060PB-350	350 ± 0.2%	W, E, L, LE
WA-XX-060PB-120	120 ± 0.3%	W*
WA-XX-060PB-350	350 ± 0.3%	W*
WK-XX-060PB-350	350 ± 0.3%	W*
WK-XX-060PB-500	500 ± 0.3%	W*
SA-XX-060PB-120	120 ± 0.3%	
SA-XX-060PB-350	350 ± 0.3%	
SK-XX-060PB-350	350 ± 0.3%	
SK-XX-060PB-500	500 ± 0.3%	

DESCRIPTION

Dual pattern for back-to-back bending sections. Longitudinal grid centerlines spaced 0.085 in (2.16 mm) apart.

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actual size

GAGE DIN	MENSIONS	ES = Each Section (S1	- · · · · · · · · · · · · · · · · · · ·		inch millimeter
Gage Length	Overall Length	Grid Width	Overall Width	Matrix Length	Matrix Width
0.060 ES	0.120 CP	0.065 ES	0.150 CP	0.18	0.20
1.52 ES	3.05 CP	1.65 ES	3.81 CP	4.6	5.1

GAGI	GAGE SERIES DATA — See Gage Series datasheet for complete specifications					
Series	Description	Strain Range	Temperature Range			
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±3%	-100° to +350°F (-75° to +175°C)			
WA	Fully encapsulated constantan gages with high-endurance leadwires.	±2%	-100° to +400°F (-75° to +205°C)			
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)			
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)			
SK	Fully encapsulated K-alloy gages with solder dots.	±1.5%	-452° to +450°F (-269° to +230°C)			

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



GAGE PATTERN DATA GAGE RESISTANCE **OPTIONS DESIGNATION** (OHMS) **AVAILABLE** See Note 1 See Note 2 See Note 3 EA-XX-062AK-120 $120 \pm 0.15\%$ E, P $350 \pm 0.4\%$ ED-DY-062AK-350 EP-08-062AK-120 $120 \pm 0.15\%$ actual size **DESCRIPTION** General-purpose gage with elongated solder tabs. See the 062AP pattern for WA, WK, and other series with this grid size. Legend inch **GAGE DIMENSIONS** ES = Each Section CP = Complete Pattern millimeter S = Section (S1 = Section 1)M = Matrix **Gage Length Overall Length Grid Width Overall Width Matrix Length Matrix Width** 0.062 0.160 0.062 0.062 0.14 0.27 1.57 4.06 1.57 1.57 6.9 3.6

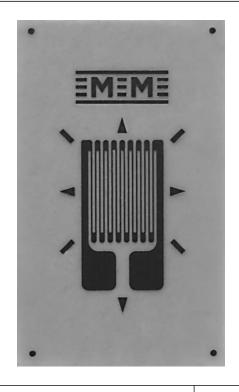
GAGE SERIES DATA — See Gage Series datasheet for complete specifications						
Series	Description Strain Range Temperature Range					
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±3%	-100° to +350°F (-75° to +175°C)			
ED	Isoelastic foil in combination with tough, flexible polyimide film.	±2%	-320° to +400°F (-195° to +205°C)			
EP	Annealed constantan foil with tough, high-elongation polyimide backing.	±10%	-100° to +400°F (-75° to +205°C)			

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.



GAGE PATTERN DATA





GAGE DESIGNATION	RESISTANCE (OHMS)	OPTIONS AVAILABLE
See Note 1, 3	See Note 2	See Note 3
EA-XX-062AP-120 ED-DY-062AP-350 EK-XX-062AP-350 WA-XX-062AP-120 WK-XX-062AP-120 SA-XX-062AP-120 SA-XX-062AP-120 SK-XX-062AP-350 SD-DY-062AP-350 WD-DY-062AP-350	$120 \pm 0.15\%$ $350 \pm 0.4\%$ $350 \pm 0.15\%$ $120 \pm 0.3\%$ $350 \pm 0.15\%$ $120 \pm 0.3\%$ $120 \pm 0.15\%$ $120 \pm 0.3\%$ $350 \pm 0.3\%$ $350 \pm 0.8\%$ $350 \pm 0.8\%$	W, E, L. LE, P E, L*, LE* W, SE W* W *

DESCRIPTION

Widely used general-purpose gage. See also 062UW pattern. EK-Series gages are supplied with duplex copper pads (DP) when optional feature W or SE is not specified.

GAGE DI	MENSIONS	ES = Each Section (S	Section CP = Complete Pattern on (S1 = Section 1) M = Matrix		inch millimeter
Gage Length	Overall Length	Grid Width	Overall Width	Matrix Length	Matrix Width
0.062	0.114	0.062	0.062	0.26	0.16
1.57	2.90	1.57	1.57	6.6	4.1

GAGE SERIES DATA — See Gage Series datasheet for complete specifications						
Series	Description	Strain Range	Temperature Range			
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±3%	-100° to +350°F (-75° to +175°C)			
ED	Isoelastic foil in combination with tough, flexible polyimide film.	±2%	-320° to +400°F (-195° to +205°C)			
EK	K-alloy foil in combination with a tough, flexible polyimide backing.	±1.5%	-320° to +350°F (-195° to +175°C)			
WA	Fully encapsulated constantan gages with high-endurance leadwires.	±2%	-100° to +400°F (-75° to +205°C)			
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)			
EP	Annealed constantan foil with tough, high-elongation polyimide backing.	±10%	-100° to +400°F (-75° to +205°C)			
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)			
SK	Fully encapsulated K-alloy gages with solder dots.	±1.5%	-452° to +450°F (-269° to +230°C)			
SD	Equivalent to WD Series, but with solder dots instead of leadwires.	±1.5%	-320° to +400°F (-195° to +205°C)			
WD	Fully encapsulated isoelastic gages with high-endurance leadwires.	±1.5%	-320° to +500°F (-195° to +260°C)			

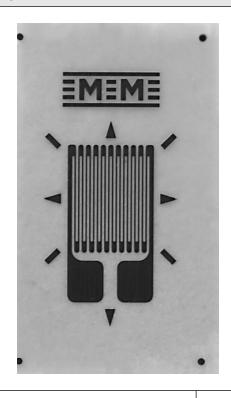
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Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



GAGE PATTERN DATA





actual size

GAGE DESIGNATION	RESISTANCE (OHMS)	OPTIONS AVAILABLE
See Note 1, 3	See Note 2	See Note 3
EA-XX-062AQ-350 ED-DY-062AQ-500 WA-XX-062AQ-350 WK-XX-062AQ-500 EP-08-062AQ-350 SA-XX-062AQ-350 SK-XX-062AQ-500 SD-DY-062AQ-500 WD-DY-062AQ-500	350 ± 0.15% 500 ± 0.4% 350 ± 0.3% 500 ± 0.3% 350 ± 0.15% 350 ± 0.3% 500 ± 0.3% 500 ± 0.8% 500 ± 0.8%	W, E, L, LE, P E, L*, LE* W* W *

DESCRIPTION

General-purpose gage. Similar to 062AP pattern but with high-resistance grid. See also 062UW pattern.

GAGE DI	MENSIONS	ES = Each Section (S	Legend n Section		inch millimeter
Gage Length	Overall Length	Grid Width	Overall Width	Matrix Length	Matrix Width
0.062	0.114	0.062	0.062	0.26	0.15
1.57	2.90	1.57	1.57	6.6	3.8

GAGI	E SERIES DATA — See Gage Series datasheet for complete	e specification	ns
Series	Description	Strain Range	Temperature Range
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±3%	-100° to +350°F (-75° to +175°C)
ED	Isoelastic foil in combination with tough, flexible polyimide film.	±2%	-320° to +400°F (-195° to +205°C)
WA	Fully encapsulated constantan gages with high-endurance leadwires.	±2%	-100° to +400°F (-75° to +205°C)
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)
EP	Annealed constantan foil with tough, high-elongation polyimide backing.	±10%	-100° to +400°F (-75° to +205°C)
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)
SK	Fully encapsulated K-alloy gages with solder dots.	±1.5%	-452° to +450°F (-269° to +230°C)
SD	Equivalent to WD Series, but with solder dots instead of leadwires.	±1.5%	-320° to +400°F (-195° to +205°C)
WD	Fully encapsulated isoelastic gages with high-endurance leadwires.	±1.5%	-320° to +500°F (-195° to +260°C)

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in bold are not RoHS compliant.



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General Purpose Strain Gages—Linear Pattern

GAGE PATTER	N DATA						
•	•			GA(DESIGN		RESISTAN (OHMS	
				See No	te 1, 3	See Note	e 2 See Note 3
	MEME	actual size		EA-XX-062D ED-DY-062D WA-XX-062D EP-08-062D SA-XX-062D SK-XX-062D SD-DY-062D WD-DY-062D DESCRIPT Similar to 0	DN-500 DN-350 DN-500 DN-350 DN-350 DN-500 DN-500 DN-500	350 ± 0.1 500 ± 0.2 350 ± 0.3 500 ± 0.3 350 ± 0.3 500 ± 0.3 500 ± 0.8	4% E, L*, LE* 3% 38% 15% 38% 38%
GAGE DIN	MENSIONS	ES = Each Secti S = Section (S1	on		= Complete = Matrix	Pattern	inch millimeter
Gage Length	Overall Length	Grid Width	Ove	rall Width	Matrix	Length	Matrix Width
0.062	0.190	0.062	(0.062	0.	34	0.18
1.57	4.83	1.57		1.57	8	.6	4.6

GAGI	E SERIES DATA — See Gage Series datasheet for complete	e specification	ns
Series	Description	Strain Range	Temperature Range
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±3%	-100° to +350°F (-75° to +175°C)
ED	Isoelastic foil in combination with tough, flexible polyimide film.	±2%	-320° to +400°F (-195° to +205°C)
WA	Fully encapsulated constantan gages with high-endurance leadwires.	±2%	-100° to +400°F (-75° to +205°C)
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)
EP	Annealed constantan foil with tough, high-elongation polyimide backing.	±10%	-100° to +400°F (-75° to +205°C)
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)
SK	Fully encapsulated K-alloy gages with solder dots.	±1.5%	-452° to +450°F (-269° to +230°C)
SD	Equivalent to WD Series, but with solder dots instead of leadwires.	±1.5%	-320° to +400°F (-195° to +205°C)
WD	Fully encapsulated isoelastic gages with high-endurance leadwires.	±1.5%	-320° to +500°F (-195° to +260°C)

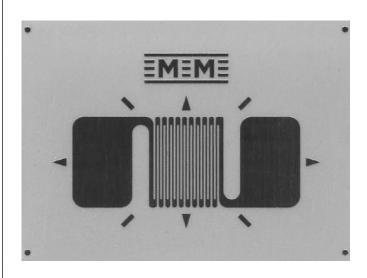
Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



GAGE PATTERN DATA



GAGE DESIGNATION	RESISTANCE (OHMS)	OPTIONS AVAILABLE
See Note 1, 3	See Note 2	See Note 3
EA-XX-062ED-120	120 ± 0.15%	E, L, LE
ED-DY-062ED-350	350 ± 0.4%	E, L*, LE**
WA-XX-062ED-120	120 ± 0.3%	
WK-XX-062ED-350	$350 \pm 0.3\%$	
EP-08-062ED-120	120 ± 0.15%	
SA-XX-062ED-350	120 ± 0.3%	
SK-XX-062ED-350	350 ± 0.3%	
SD-DY-062ED-350	350 ± 0.8%	
WD-DY-062ED-350	350 ± 0.8%	



actual size

DESCRIPTION

General-purpose gage. Similar to 062EN pattern except for grid resistance.

GAGE DII	MENSIONS	ES = Each Section CP = Complete Pattern S = Section (S1 = Section 1) M = Matrix		inch millimeter	
Gage Length	Overall Length	Grid Width	Overall Width	Matrix Length	Matrix Width
0.062	0.076	0.062	0.190	0.21	0.29
1.57	1.93	1.57	4.83	5.3	7.4

GAGI	E SERIES DATA — See Gage Series datasheet for complete	e specification	ns
Series	Description	Strain Range	Temperature Range
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±3%	-100° to +350°F (-75° to +175°C)
ED	Isoelastic foil in combination with tough, flexible polyimide film.	±2%	-320° to +400°F (-195° to +205°C)
WA	Fully encapsulated constantan gages with high-endurance leadwires.	±2%	-100° to +400°F (-75° to +205°C)
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)
EP	Annealed constantan foil with tough, high-elongation polyimide backing.	±10%	-100° to +400°F (-75° to +205°C)
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)
SK	Fully encapsulated K-alloy gages with solder dots.	±1.5%	-452° to +450°F (-269° to +230°C)
SD	Equivalent to WD Series, but with solder dots instead of leadwires.	±1.5%	-320° to +400°F (-195° to +205°C)
WD	Fully encapsulated isoelastic gages with high-endurance leadwires.	±1.5%	-320° to +500°F (-195° to +260°C)

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

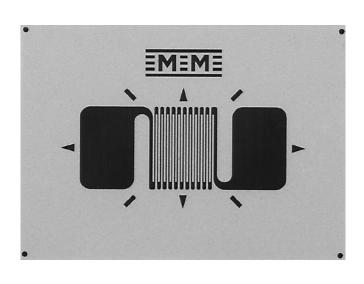
Note 3: Products with designations and options shown in bold are not RoHS compliant.

GAGE PATTERN DATA



General Purpose Strain Gages—Linear Pattern

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GAGE DESIGNATION See Note 1, 3	RESISTANCE (OHMS) See Note 2	OPTIONS AVAILABLE See Note 3
EA-XX-062EN-350 ED-DY-062EN-500 WA-XX-062EN-350 WK-XX-062EN-500 EP-08-062EN-350 SA-XX-062EN-350 SK-XX-062EN-500 SD-DY-062EN-500 WD-DY-062EN-500	$350 \pm 0.15\%$ $500 \pm 0.4\%$ $350 \pm 0.3\%$ $500 \pm 0.3\%$ $350 \pm 0.15\%$ $350 \pm 0.3\%$ $500 \pm 0.3\%$ $500 \pm 0.8\%$ $500 \pm 0.8\%$	E, L, LE E, L*, LE*

actual size

DESCRIPTION

Similar to 062ED pattern except for grid resistance.

GAGE DIMENSIONS			ES = Each Section CP = Complete Pattern S = Section (S1 = Section 1) M = Matrix		
Gage Length	Overall Length	Grid Width	Overall Width	Matrix Length	Matrix Width
0.062	0.076	0.062	0.190	0.23	0.31
1.57	1.93	1.57	4.83	5.8	7.9

GAGI	E SERIES DATA — See Gage Series datasheet for complete	e specification	ns
Series	Description	Strain Range	Temperature Range
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±3%	-100° to +350°F (-75° to +175°C)
ED	Isoelastic foil in combination with tough, flexible polyimide film.	±2%	-320° to +400°F (-195° to +205°C)
WA	Fully encapsulated constantan gages with high-endurance leadwires.	±2%	-100° to +400°F (-75° to +205°C)
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)
EP	Annealed constantan foil with tough, high-elongation polyimide backing.	±10%	-100° to +400°F (-75° to +205°C)
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)
SK	Fully encapsulated K-alloy gages with solder dots.	±1.5%	-452° to +450°F (-269° to +230°C)
SD	Equivalent to WD Series, but with solder dots instead of leadwires.	±1.5%	-320° to +400°F (-195° to +205°C)
WD	Fully encapsulated isoelastic gages with high-endurance leadwires.	±1.5%	-320° to +500°F (-195° to +260°C)

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.

^{*}Options available but not normally recommended. See Optional Features data sheet for details.



GAGE PATTER	N DATA						
P _				GAC DESIGN		RESISTAI (OHMS	
	MEME	1		See No	ote 1		
		actual size	,	L2A-XX-062 L2A-XX-062 C2A-XX-062 C2A-XX-062	LW-350 LW-120	120 ± 0. 350 ± 0. 120 ± 0. 350 ± 0.	6% 6%
				DESCRIPT Widely use	TION d general-p	urpose gag	Pb-free RoHS COMPLIANT
GAGE DIN	MENSIONS	ES = Each Section S = Section (S1	on		Complete Matrix	Pattern	inch millimeter
Gage Length	Overall Length	Grid Width	Over	all Width	Matrix	Length	Matrix Width
0.062	0.175	0.050	(0.080	0.2	52	0.170
1.52	4.45	1.27		2.03	6.4	10	4.32

Series	222 122		Temperature Range
L2A	Encapsulated constantan gages with preattached ribbon leads.	±3%	-100° to +250°F (-75° to +120°C)
C2A	Encapsulated constantan gages with preattached ready-to-use cables.	±3%	-60° to +180°F (-50° to +80°C)
	Example of an	Example o	fan

Note 1: Insert desired S-T-C number in spaces marked XX.



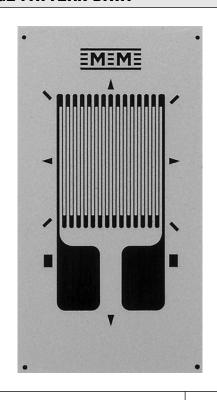
GAGE PATTERN DATA GAGE RESISTANCE **OPTIONS DESIGNATION** (OHMS) **AVAILABLE** See Note 2 See Note 1 CEA-XX-062UW-120 $120 \pm 0.3\%$ $350 \pm 0.3\%$ CEA-XX-062UW-350 P2 actual size **DESCRIPTION** General-purpose gage. Exposed solder tab area is 0.07 x 0.04 in [1.8 x 1.0 mm]. Legend inch **GAGE DIMENSIONS** ES = Each Section CP = Complete Pattern millimeter S = Section (S1 = Section 1)M = Matrix **Gage Length Overall Length Grid Width Overall Width Matrix Length Matrix Width** 0.062 0.220 0.120 0.120 0.31 0.19 1.57 3.05 7.9 5.59 3.05 4.8

GAGE SERIES DATA — See Gage Series datasheet for complete specifications				
Series	Description	Strain Range	Temperature Range	
CEA	Universal general-purpose strain gages.	±3%	-100° to +350°F (-75° to +175°C)	

Note 1: Insert desired S-T-C number in spaces marked XX.



GAGE PATTERN DATA





GAGE DESIGNATION	RESISTANCE (OHMS)	OPTIONS AVAILABLE
See Note 1, 3	See Note 2	See Note 3
EA-XX-125AC-350 ED-DY-125AC-10C EK-XX-125AC-10C S2K-XX-125AC-10C WA-XX-125AC-350 WK-XX-125AC-350 EP-08-125AC-350 SA-XX-125AC-350 SK-XX-125AC-10C WD-DY-125AC-10C	$350 \pm 0.15\%$ $1000 \pm 0.3\%$ $1000 \pm 0.15\%$ $1000 \pm 0.3\%$ $350 \pm 0.3\%$ $1000 \pm 0.3\%$ $350 \pm 0.15\%$ $350 \pm 0.15\%$ $350 \pm 0.3\%$ $1000 \pm 0.3\%$ $1000 \pm 0.6\%$ $1000 \pm 0.6\%$	W, E, L, LE, P E, L*, LE* W, SE W* W*

DESCRIPTION

Widely used general-purpose gage with high-resistance grid. See also 125AD, 125UN, and 125UW patterns. EK-Series gages are supplied with duplex copper pads (DP) when optional feature W or SE is not specified.

GAGE DI	MENSIONS	ES = Each Secti S = Section (S		- Complete Pattern - Matrix	inch millimeter
Gage Length	Overall Length	Grid Width	Overall Width	Matrix Length	Matrix Width
0.125	0.250	0.125	0.125	0.40	0.22
3.18	6.35	3.18	3.18	10.2	5.6

GAGE SERIES DATA — See Gage Series datasheet for complete specifications							
Series	Series Description St		Temperature Range				
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±5%	-100° to +350°F (-75° to +175°C)				
ED	Isoelastic foil in combination with tough, flexible polyimide film.	±2%	-320° to +400°F (-195° to +205°C)				
EK	K-alloy foil in combination with a tough, flexible polyimide backing.	±1.5%	-320° to +350°F (-195° to +175°C)				
S2K	K-alloy foil with laminated thick, high-performance polyimide backing.	±1.5%	-100° to +250°F (-75° to +120°C)				
WA	WA Fully encapsulated constantan gages with high-endurance leadwires.		-100° to +400°F (-75° to +205°C)				
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)				
EP	Annealed constantan foil with tough, high-elongation polyimide backing.	±20%	-100° to +400°F (-75° to +205°C)				
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)				
SK	SK Fully encapsulated K-alloy gages with solder dots.		-452° to +450°F (-269° to +230°C)				
SD	Equivalent to WD Series, but with solder dots instead of leadwires.	±1.5%	-320° to +400°F (-195° to +205°C)				
WD	Fully encapsulated isoelastic gages with high-endurance leadwires.	±1.5%	-320° to +500°F (-195° to +260°C)				

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in bold are not RoHS compliant.



GAGE PATTERN DATA GAGE RESISTANCE **OPTIONS DESIGNATION** (OHMS) **AVAILABLE** See Note 1, 3 See Note 2 See Note 3 EA-XX-125AD-120 $120 \pm 0.15\%$ W, E, L, LE, **P** $350 \pm 0.3\%$ ED-DY-125AD-350 E, L*, LE* $350 \pm 0.15\%$ W, SE EK-XX-125AD-350 $120 \pm 0.3\%$ WA-XX-125AD-120 W* $350 \pm 0.3\%$ WK-XX-125AD-350 W* EP-XX-125AD-120 $120 \pm 0.15\%$ SA-XX-125AD-120 $120 \pm 0.3\%$ SK-XX-125AD-350 $350 \pm 0.3\%$ $350 \pm 0.6\%$ SD-DY-125AD-350 ಠ $350 \pm 0.6\%$ WD-DY-125AD-350 actual size **DESCRIPTION** Widely used general-purpose gage. EK-Series gages are supplied with duplex copper pads (DP) when optional feature W or SE is not specified. Legend inch **GAGE DIMENSIONS** ES = Each Section CP = Complete Pattern

		S = Section (S1 = Section 1) M = Matrix			millimeter		
Gage Length	Overall Length	Grid Width	Overall Width	Matrix Length	Matrix Width		
0.125	0.250	0.125	0.125	0.40	0.22		
3.18	6.35	3.18	3.18	10.2	5.6		
GAGE SERIES DATA — See Gage Series datasheet for complete specifications							

GAGE SERIES DATA — See Gage Series datasheet for complete specifications							
Series Description St		Strain Range	Temperature Range				
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±5%	-100° to +350°F (-75° to +175°C)				
ED	Isoelastic foil in combination with tough, flexible polyimide film.	±2%	-320° to +400°F (-195° to +205°C)				
EK	K-alloy foil in combination with a tough, flexible polyimide backing.	±1.5%	-320° to +350°F (-195° to +175°C)				
WA	WA Fully encapsulated constantan gages with high-endurance leadwires.		-100° to +400°F (-75° to +205°C)				
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)				
EP	Annealed constantan foil with tough, high-elongation polyimide backing.	±20%	-100° to +400°F (-75° to +205°C)				
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)				
SK	SK Fully encapsulated K-alloy gages with solder dots.		-452° to +450°F (-269° to +230°C)				
SD	Equivalent to WD Series, but with solder dots instead of leadwires.	±1.5%	-320° to +400°F (-195° to +205°C)				
WD	Fully encapsulated isoelastic gages with high-endurance leadwires.	±1.5%	-320° to +500°F (-195° to +260°C)				

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in bold are not RoHS compliant.



GAGE PATTERN DATA							
•				GA(DESIGN		RESISTAN (OHMS	
=	MEME			See No	te 1, 3	See Note	See Note 3
		actual size		J	BB-350 BB-120 BB-350 BB-120 BB-120 BB-350 BB-350 BB-350	120 ± 0.1 350 ± 0.3 120 ± 0.3 350 ± 0.3 120 ± 0.1 120 ± 0.3 350 ± 0.6 350 ± 0.6	3% E 3% 3% 15% 3% 3%
GAGE DIN	MENSIONS	ES = Each Section S = Section (S1	on		= Complete = Matrix	Pattern	inch millimeter
Gage Length	Overall Length	Grid Width	Over	rall Width	Matrix	Length	Matrix Width
0.125	0.245	0.088	(0.088	0.	43	0.22
3.18	6.22	2.24		2.24	10	0.9	5.6

GAGE SERIES DATA — See Gage Series datasheet for complete specifications							
Series	Description S		Temperature Range				
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±5%	-100° to +350°F (-75° to +175°C)				
ED	Isoelastic foil in combination with tough, flexible polyimide film.	±2%	-320° to +400°F (-195° to +205°C)				
WA	Fully encapsulated constantan gages with high-endurance leadwires.	±2%	-100° to +400°F (-75° to +205°C)				
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)				
EP	Annealed constantan foil with tough, high-elongation polyimide backing.	±20%	-100° to +400°F (-75° to +205°C)				
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)				
SK	Fully encapsulated K-alloy gages with solder dots.	±1.5%	-452° to +450°F (-269° to +230°C)				
SD	Equivalent to WD Series, but with solder dots instead of leadwires.	±1.5%	-320° to +400°F (-195° to +205°C)				
WD	Fully encapsulated isoelastic gages with high-endurance leadwires.	±1.5%	-320° to +500°F (-195° to +260°C)				

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.



Document No.: 11196

Revision: 22-Sep-2015

General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA GAGE RESISTANCE **OPTIONS DESIGNATION** (OHMS) **AVAILABLE** See Note 1, 3 See Note 2 See Note 3 EA-XX-125BT-120 120 ± 0.15% W, E, L, LE, **P** ED-DY-125BT-350 $350 \pm 0.3\%$ E, L*, LE* $120 \pm 0.3\%$ WA-XX-125BT-120 W* $350 \pm 0.3\%$ W* WK-XX-125BT-350 120 ± 0.15% EP-08-125BT-120 SA-XX-125BT-120 $120 \pm 0.3\%$ SK-XX-125BT-350 $350 \pm 0.3\%$ SD-DY-125BT-350 $350 \pm 0.6\%$ $350 \pm 0.6\%$ WD-DY-125BT-350 actual size **DESCRIPTION** General-purpose gage with narrow grid and compact geometry. See also 125BZ pattern. Legend inch **GAGE DIMENSIONS** ES = Each Section CP = Complete Pattern millimeter S = Section (S1 = Section 1)M = Matrix **Gage Length Overall Length Grid Width Overall Width** Matrix Length Matrix Width 0.125 0.215 0.062 0.062 0.16 0.37 3.18 5.46 1.57 1.57 9.4 4.1

GAGE SERIES DATA — See Gage Series datasheet for complete specifications							
Series	eries Description S		Temperature Range				
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±5%	-100° to +350°F (-75° to +175°C)				
ED	Isoelastic foil in combination with tough, flexible polyimide film.	±2%	-320° to +400°F (-195° to +205°C)				
WA	Fully encapsulated constantan gages with high-endurance leadwires.	±2%	-100° to +400°F (-75° to +205°C)				
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)				
EP	Annealed constantan foil with tough, high-elongation polyimide backing.	±20%	-100° to +400°F (-75° to +205°C)				
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)				
SK	Fully encapsulated K-alloy gages with solder dots.		-452° to +450°F (-269° to +230°C)				
SD	Equivalent to WD Series, but with solder dots instead of leadwires.	±1.5%	-320° to +400°F (-195° to +205°C)				
WD	Fully encapsulated isoelastic gages with high-endurance leadwires.	±1.5%	-320° to +500°F (-195° to +260°C)				

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in bold are not RoHS compliant.



GAGE PATTERN DATA GAGE RESISTANCE **OPTIONS** AVAILABLE **DESIGNATION** (OHMS) See Note 1, 3 See Note 2 See Note 3 EA-XX-125BZ-350 $350 \pm 0.15\%$ W, E, L, LE, **P** 1000 ± 0.4% ED-DY-125BZ-10C E, L*, LE* $1000 \pm 0.15\%$ EK-XX-125BZ-10C W* W* WA-XX-125BZ-350 $350 \pm 0.3\%$ WK-XX-125BZ-10C $1000 \pm 0.3\%$ SA-XX-125BZ-350 $350 \pm 0.3\%$ SK-XX-125BZ-10C $1000 \pm 0.3\%$ SD-DY-125BZ-10C $1000 \pm 0.8\%$ $1000 \pm 0.8\%$ WD-DY-125BZ-10C actual size **DESCRIPTION** Narrow high-resistance gage with compact geometry. Similar to 125BT pattern except for grid resistance. EK-Series gages are supplied with duplex copper dots(DD) when optional feature W is not specified. Legend inch **GAGE DIMENSIONS** ES = Each Section CP = Complete Pattern millimeter S = Section (S1 = Section 1)M = Matrix **Gage Length Overall Length Grid Width Overall Width** Matrix Length Matrix Width 0.125 0.220 0.062 0.062 0.29 0.13

GAGE SERIES DATA — See Gage Series datasheet for complete specifications							
Series	ries Description St		Temperature Range				
EA	Constantan foil in combination with a tough, flexible, polyimide backing.		-100° to +350°F (-75° to +175°C)				
ED	Isoelastic foil in combination with tough, flexible polyimide film.	±2%	-320° to +400°F (-195° to +205°C)				
EK	K K-alloy foil in combination with a tough, flexible polyimide backing.		-320° to +350°F (-195° to +175°C)				
WA	/A Fully encapsulated constantan gages with high-endurance leadwires.		-100° to +400°F (-75° to +205°C)				
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)				
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)				
SK	SK Fully encapsulated K-alloy gages with solder dots.		-452° to +450°F (-269° to +230°C)				
SD	Equivalent to WD Series, but with solder dots instead of leadwires.	±1.5%	-320° to +400°F (-195° to +205°C)				
WD	Fully encapsulated isoelastic gages with high-endurance leadwires.	±1.5%	-320° to +500°F (-195° to +260°C)				

1.57

7.4

1.57

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

5.59

Note 3: Products with designations and options shown in bold are not RoHS compliant.

*Options available but not normally recommended. See Optional Features data sheet for details.

3.18

3.3



GAGE PATTER	GAGE PATTERN DATA						
" = I	MEME			GAO DESIGN See No	ATION	RESISTAI (OHMS	
		actual size		L2A-XX-125 L2A-XX-125 C2A-XX-125	LW-120 LW-350 6LW-120	120 ± 0. 350 ± 0. 120 ± 0. 350 ± 0.	6% 6%
				DESCRIPT Widely use		urpose gag	ROHS
GAGE DIM	MENSIONS	ES = Each Section S = Section (S1	on	egend CP = on 1) M =	= Complete = Matrix	Pattern	inch millimeter
Gage Length	Overall Length	Grid Width	Ove	rall Width	Matrix	Length	Matrix Width
0.125	0.238	0.070	(0.080	0.3	315	0.170
3.18	6.05	1.78		2.03	8.	00	4.32

Series Description S			Temperature Range
L2A	Encapsulated constantan gages with preattached ribbon leads.	±3%	-100° to +250°F (-75° to +120°C)
C2A	Encapsulated constantan gages with preattached ready-to-use cables.	±3%	-60° to +180°F (-50° to +80°C)
		Example	

Note 1: Insert desired S-T-C number in spaces marked XX.



GAGE PATTERN DATA



GAGE DESIGNATION	RESISTANCE (OHMS)	OPTIONS AVAILABLE
See Note 1, 3	See Note 2	See Note 3
EA-XX-125PC-120 EA-XX-125PC-350 ED-DY-125PC-350 ED-DY-125PC-10C EK-XX-125PC-10C WA-XX-125PC-120 WA-XX-125PC-350 WK-XX-125PC-350 WK-XX-125PC-10C SA-XX-125PC-120 SA-XX-125PC-350	$120 \pm 0.2\%$ $350 \pm 0.2\%$ $350 \pm 0.4\%$ $1000 \pm 0.4\%$ $1000 \pm 0.4\%$ $120 \pm 0.4\%$ $350 \pm 0.4\%$ $1000 \pm 0.4\%$ $120 \pm 0.4\%$ $350 \pm 0.4\%$	W, E, L, LE W, E, L, LE E E W, SE W* W* W* W*
SK-XX-125PC-350 SK-XX-125PC-10C	350 ± 0.4% 1000 ± 0.4%	

DESCRIPTION

Dual-pattern gage for use in back-to-back bending applications. Longitudinal grid centerlines spaced 0.085 in [2.16 mm] apart. See also 125MG pattern. EK-Series gages are supplied with duplex copper pads (DP) when optional W or SE is not specified.

GAGE DIMENSIONS		ES = Each Section (S1	inch millimeter		
Gage Length	Overall Length	Grid Width	Overall Width	Matrix Length	Matrix Width
0.125 ES	0.205 CP	0.065 ES	0.150 CP	0.29	0.23
3.18 ES	5.21 CP	1.65 ES	3.81 CP	7.4	5.8

GAGE SERIES DATA — See Gage Series datasheet for complete specifications						
Series	S Description S		Temperature Range			
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±5%	-100° to +350°F (-75° to +175°C)			
ED	Isoelastic foil in combination with tough, flexible polyimide film.	±2%	-320° to +400°F (-195° to +205°C)			
EK	K-alloy foil in combination with a tough, flexible polyimide backing.	±1.5%	-320° to +350°F (-195° to +175°C)			
WA	Fully encapsulated constantan gages with high-endurance leadwires.	±2%	-100° to +400°F (-75° to +205°)			
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)			
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)			
SK	Fully encapsulated K-alloy gages with solder dots.	±1.5%	-452° to +450°F (-269° to +230°C)			

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



GAGE PATTER	GAGE PATTERN DATA						
	\ \ \			GAC DESIGN	ATION	RESISTAN (OHMS)	AVAILABLE
	actual size		See No CEA-XX-125 CEA-XX-125	5UN-120	120 ± 0.3 350 ± 0.3		
					ırpose gage area 0.06 x		geometry. Exposed (1.1 mm). See also
GAGE DIN	ES = Each Section (S1	on		= Complete = Matrix	Pattern	inch millimeter	
Gage Length	Overall Length	Grid Width	Over	all Width	Matrix	Length	Matrix Width
0.125	0.275	0.100	(0.120	0.	38	0.19
3.18	6.99	2.54		3.05	9	.7	4.8

GAGE SERIES DATA — See Gage Series datasheet for complete specifications					
Series	Description	Strain Range	Temperature Range		
CEA	Universal general-purpose strain gages.	±5%	-100° to +350°F (-75° to +175°C)		

Note 1: Insert desired S-T-C number in spaces marked XX.



GAGE PATTERN DATA RESISTANCE **OPTIONS GAGE DESIGNATION** (OHMS) **AVAILABLE** See Note 1 See Note 2 CEA-XX-125UW-120 $120 \pm 0.3\%$ P2 $350 \pm 0.3\%$ **P2** CEA-XX-125UW-350 actual size **DESCRIPTION** General-purpose gage. Exposed solder tab area 0.10 x 0.07 (2.5 x 1.8 mm). See also 125UN pattern. Legend inch ES = Each Section CP = Complete Pattern **GAGE DIMENSIONS** millimeter S = Section (S1 = Section 1) M = Matrix Overall Length Gage Length **Grid Width Overall Width** Matrix Length **Matrix Width** 0.180 0.180 0.125 0.325 0.42 0.27 3.18 8.26 4.57 4.57 10.7 6.9

GAGE SERIES DATA — See Gage Series datasheet for complete specifications					
Series	Description	Strain Range	Temperature Range		
CEA	Universal general-purpose strain gages.	±5%	-100° to +350°F (-75° to +175°C)		

Note 1: Insert desired S-T-C number in spaces marked XX.



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Revision: 22-Sep-2015

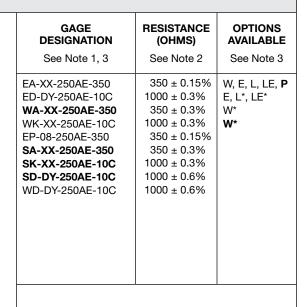
General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA GAGE RESISTANCE **OPTIONS** (OHMS) **DESIGNATION AVAILABLE** See Note 2 See Note 1 CEA-XX-187UW-120 $120 \pm 0.3\%$ $350 \pm 0.3\%$ CEA-XX-187UW-350 P2 actual size **DESCRIPTION** General-purpose gage. Exposed solder tab area 0.10 x 0.07 in (2.5 x 1.8 mm). Legend inch **GAGE DIMENSIONS** ES = Each Section CP = Complete Pattern millimeter S = Section (S1 = Section 1)M = Matrix **Gage Length Overall Length Grid Width Overall Width Matrix Length Matrix Width** 0.187 0.387 0.180 0.180 0.49 0.27 4.75 4.57 6.9 9.83 4.57 12.4

GAGE SERIES DATA — See Gage Series datasheet for complete specifications						
Series	Description	Strain Range	Temperature Range			
CEA	Universal general-purpose strain gages.	±5%	-100° to +350°F (-75° to +175°C)			

Note 1: Insert desired S-T-C number in spaces marked XX.





DESCRIPTION

General-purpose gage with high-dissipation grid. See also 250AF pattern.

GAGE DI	MENSIONS	ES = Each Section CP = Complete Pattern S = Section (S1 = Section 1) M = Matrix		ES = Each Section CP = Complete Pattern		inch millimeter
Gage Length	Overall Length	Grid Width	Overall Width	Matrix Length	Matrix Width	
0.250	0.415	0.250	0.250	0.57	0.36	
6.35	10.54	6.35	6.35	14.5	9.1	

GAGE SERIES DATA — See Gage Series datasheet for complete specifications						
Series	Description		Temperature Range			
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±5%	-100° to +350°F (-75° to +175°C)			
ED	Isoelastic foil in combination with tough, flexible polyimide film.	±2%	-320° to +400°F (-195° to +205°C)			
WA	Fully encapsulated constantan gages with high-endurance leadwires.	±2%	-100° to +400°F (-75° to +205°)			
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)			
EP	Annealed constantan foil with tough, high-elongation polyimide backing.	±20%	-100° to +400°F (-75° to +205°C)			
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)			
SK	Fully encapsulated K-alloy gages with solder dots.	±1.5%	-452° to +450°F (-269° to +230°C)			
SD	Equivalent to WD Series, but with solder dots instead of leadwires.	±1.5%	-320° to +400°F (-195° to +205°C)			
WD	Fully encapsulated isoelastic gages with high-endurance leadwires.	±1.5%	-320° to +500°F (-195° to +260°C)			

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in bold are not RoHS compliant.



GAGE PATTERN DATA GAGE RESISTANCE **OPTIONS DESIGNATION** (OHMS) **AVAILABLE** EMEME See Note 1, 3 See Note 2 See Note 3 EA-XX-250BF-350 $350 \pm 0.15\%$ W, E, L, LE, **P** ED-DY-250BF-10C $1000 \pm 0.3\%$ E, L*, LE* $1000 \pm 0.15\%$ W, SE EK-XX-250BF-10C $1000 \pm 0.3\%$ S2K-XX-250BF-10C WA-XX-250BF-350 $350 \pm 0.3\%$ W* WK-XX-250BF-10C $1000 \pm 0.3\%$ EP-08-250BF-350 $350 \pm 0.15\%$ SA-XX-250BF-350 $350 \pm 0.3\%$ $1000 \pm 0.3\%$ SK-XX-250BF-10C $1000 \pm 0.6\%$ SD-DY-250BF-10C WD-DY-250BF-10C $1000 \pm 0.6\%$ actual size DESCRIPTION General-purpose gage with high-resistance grid. Compact geometry. Similar to 250BG pattern except for resistance. See also 250BM and 250UW patterns. EK-Series gages are supplied with duplex copper pads (DP) when optional feature W or SE is not specified. Legend inch **GAGE DIMENSIONS** ES = Each Section CP = Complete Pattern millimeter S = Section (S1 = Section 1)M = Matrix **Gage Length** Overall Length **Grid Width Overall Width** Matrix Length Matrix Width 0.250 0.375 0.125 0.125 0.22 0.52 6.35 9.53 3.18 3.18 13.2 5.6

GAGE SERIES DATA — See Gage Series datasheet for complete specifications						
Series	Description S		Temperature Range			
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±5%	-100° to +350°F (-75° to +175°C)			
ED	Isoelastic foil in combination with tough, flexible polyimide film.	±2%	-320° to +400°F (-195° to +205°C)			
EK	K-alloy foil in combination with a tough, flexible polyimide backing.	±1.5%	-320° to +350°F (-195° to +175°C)			
S2K	K-alloy foil with laminated thick, high-performance polyimide backing.	±1.5%	-100° to +250°F (-75° to +120°C)			
WA	Fully encapsulated constantan gages with high-endurance leadwires.	±2%	-100° to +400°F (-75° to +205°)			
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)			
EP	Annealed constantan foil with tough, high-elongation polyimide backing.	±20%	-100° to +400°F (-75° to +205°C)			
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)			
SK	Fully encapsulated K-alloy gages with solder dots.	±1.5%	-452° to +450°F (-269° to +230°C)			
SD	Equivalent to WD Series, but with solder dots instead of leadwires.	±1.5%	-320° to +400°F (-195° to +205°C)			
WD	Fully encapsulated isoelastic gages with high-endurance leadwires.	±1.5%	-320° to +500°F (-195° to +260°C)			

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in bold are not RoHS compliant.



GAGE PATTER	GAGE PATTERN DATA						
•	•			GA(DESIGN		RESISTAN (OHMS	
	EMEME			See No	te 1, 3	See Note	e 2 See Note 3
		actual size		EA-XX-250E ED-DY-250E WA-XX-250 WK-XX-250E SA-XX-250I SC-XX-250I WD-DY-250I WD-DY-250I Widely u geometry.	BG-350 BG-120 BG-350 BG-120 BG-120 BG-350 BG-350 BG-350	120 ± 0.3 350 ± 0.3 120 ± 0.3 350 ± 0.3 120 ± 0.3 350 ± 0.3 350 ± 0.6 350 ± 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3%
GAGE DIN	MENSIONS	ES = Each Section (S1	on		= Complete = Matrix	Pattern	inch millimeter
Gage Length	Overall Length	Grid Width	Over	all Width	Matrix I	Length	Matrix Width
0.250	0.375	0.125	(0.125	0.5	52	0.22
6.35	9.53	3.18	3.18		13.2		5.6

GAGE SERIES DATA — See Gage Series datasheet for complete specifications						
Series	Description 5		Temperature Range			
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±5%	-100° to +350°F (-75° to +175°C)			
ED	Isoelastic foil in combination with tough, flexible polyimide film.	±2%	-320° to +400°F (-195° to +205°C)			
WA	Fully encapsulated constantan gages with high-endurance leadwires.	±2%	-100° to +400°F (-75° to +205°)			
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)			
EP	Annealed constantan foil with tough, high-elongation polyimide backing.	±20%	-100° to +400°F (-75° to +205°C)			
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)			
SK	Fully encapsulated K-alloy gages with solder dots.	±1.5%	-452° to +450°F (-269° to +230°C)			
SD	Equivalent to WD Series, but with solder dots instead of leadwires.	±1.5%	-320° to +400°F (-195° to +205°C)			
WD	Fully encapsulated isoelastic gages with high-endurance leadwires.	±1.5%	-320° to +500°F (-195° to +260°C)			

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



GAGE PATTERN DATA							
•	• EMEME			GAC DESIGN	ATION	RESISTANO (OHMS)	AVAILABLE
		actual size		See No: EA-XX-250E WA-XX-250 WK-XX-250I SA-XX-250I	BK-10C BK-10C BK-30C BK-30C BK-30C	See Note 1000 ± 0.14 1000 ± 0.3 3000 ± 0.3 1000 ± 0.3 3000 ± 0.3	5% W, E, L, LE, P W* W *
					ance gage		power dissipation ations or use on
GAGE DIN	MENSIONS	ES = Each Secti S = Section (S1	on		= Complete = Matrix	Pattern	inch millimeter
Gage Length	Overall Length	Grid Width	Over	all Width	Matrix	Length	Matrix Width
0.250	0.430	0.175	C	0.175	0.5	58	0.27
6.35	10.92	4.45		4.45	14	.7	6.9

GAGI	GAGE SERIES DATA — See Gage Series datasheet for complete specifications							
Series	Description	Strain Range	Temperature Range					
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±5%	-100° to +350°F (-75° to +175°C)					
WA	Fully encapsulated constantan gages with high-endurance leadwires.	±2%	-100° to +400°F (-75° to +205°)					
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)					
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)					
SK	Fully encapsulated K-alloy gages with solder dots.	±1.5%	-452° to +450°F (-269° to +230°C)					

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in bold are not RoHS compliant.



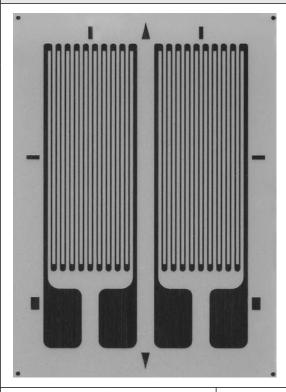
GAGE PATTER	N DATA						
	MEME			GA0 DESIGN		RESISTANO (OHMS)	OPTIONS AVAILABLE
	A			See N	ote 1		
		actual size		L2A-XX-250 L2A-XX-250 C2A-XX-250 C2A-XX-250	LW-350 DLW-120	120 ± 0.69 350 ± 0.69 120 ± 0.69 350 ± 0.69	6 6
				DESCRIP 1 Widely use		urpose gage.	Pb-free RoHS COMPLIANT
GAGE DIN	ES = Each Secti S = Section (S1	on	egend CP : on 1) M :	= Complete I = Matrix	Pattern	inch millimeter	
Gage Length	Overall Length	Grid Width	Over	all Width	Matrix I	ength	Matrix Width
0.250	0.363	0.100	(0.100	0.4	40	0.170
6.35	9.22	2.54		2.54	11.1	18	4.32

GAGE SERIES DATA — See Gage Series datasheet for complete specifications						
Series	Description	Strain Range	Temperature Range			
L2A	Encapsulated constantan gages with preattached ribbon leads.	±3%	-100° to +250°F (-75° to +120°C)			
C2A	Encapsulated constantan gages with preattached ready-to-use cables.	±3%	-60° to +180°F (-50° to +80°C)			
	Example of an L2A Construction	Example C2A Cons				

Note 1: Insert desired S-T-C number in spaces marked XX.



GAGE PATTERN DATA





GAGE DESIGNATION	RESISTANCE (OHMS)	OPTIONS AVAILABLE
See Note 1, 3	See Note 2	See Note 3
EA-XX-250PD-120 EA-XX-250PD-350 ED-DY-250PD-350 EK-XX-250PD-10C S2K-XX-250PD-10C WA-XX-250PD-120 WA-XX-250PD-350 WK-XX-250PD-350 WK-XX-250PD-10C SA-XX-250PD-120	$120 \pm 0.2\%$ $350 \pm 0.2\%$ $350 \pm 0.4\%$ $1000 \pm 0.2\%$ $1000 \pm 0.4\%$ $120 \pm 0.3\%$ $350 \pm 0.3\%$ $350 \pm 0.4\%$ $1000 \pm 0.4\%$ $120 \pm 0.4\%$	W, E, L, LE W, E, L, LE E W, SE W* W* W*
SA-XX-250PD-350 SK-XX-250PD-350 SK-XX-250PD-10C SD-DY-250PD-350 WD-DY-250PD-350	$350 \pm 0.4\%$ $350 \pm 0.4\%$ $1000 \pm 0.4\%$ $350 \pm 0.8\%$ $350 \pm 0.8\%$	

DESCRIPTION

Dual-element pattern with longitudinal grid centerlines spaced 0.130 in [3.30 mm] apart. See also 250MQ pattern. EK-Series gages are supplied with duplex copper pads (DP) when optional feature W or SE is not specified.

GAGE DIMENSIONS		ES = Each Section (S1	inch millimeter		
Gage Length	Overall Length	Grid Width	Overall Width	Matrix Length	Matrix Width
0.250	0.358	0.110	0.240	0.44	0.32
6.35	9.09	2.79	6.10	11.2	8.1

GAGI	GAGE SERIES DATA — See Gage Series datasheet for complete specifications							
Series	Description	Strain Range	Temperature Range					
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±5%	-100° to +350°F (-75° to +175°C)					
ED	Isoelastic foil in combination with tough, flexible polyimide film.	±2%	-320° to +400°F (-195° to +205°C)					
EK	K-alloy foil in combination with a tough, flexible polyimide backing.	±1.5%	-320° to +350°F (-195° to +175°C)					
S2K	K-alloy foil with laminated thick, high-performance polyimide backing.	±1.5%	-100° to +250°F (-75° to +120°C)					
WA	Fully encapsulated constantan gages with high-endurance leadwires.	±2%	-100° to +400°F (-75° to +205°)					
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)					
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)					
SK	Fully encapsulated K-alloy gages with solder dots.	±1.5%	-452° to +450°F (-269° to +230°C)					
SD	Equivalent to WD Series, but with solder dots instead of leadwires.	±1.5%	-320° to +400°F (-195° to +205°C)					
WD	Fully encapsulated isoelastic gages with high-endurance leadwires.	±1.5%	-320° to +500°F (-195° to +260°C)					

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



GAGE PATTER	N DATA						
	1			GA(DESIGN		RESISTAN (OHMS	
				See N	ote 1		See Note 2
		actual size		CEA-XX-250 CEA-XX-250		120 ± 0.3	
					ırpose gage area 0.08 x		geometry. Exposed x 1.1 mm). See also
GAGE DIM	MENSIONS	ES = Each Secti S = Section (S1	on		= Complete = Matrix	Pattern	inch millimeter
Gage Length	Overall Length	Grid Width	Over	all Width	Matrix	Length	Matrix Width
0.250	0.415	0.120	(0.120	0.	52	0.22
6.35	10.54	3.05		3.05	13	3.2	5.6

GAGI	GAGE SERIES DATA — See Gage Series datasheet for complete specifications						
Series	eries Description Strain Range Temperature Range						
CEA	Universal general-purpose strain gages.	±5%	-100° to +350°F (-75° to +175°C)				

Note 1: Insert desired S-T-C number in spaces marked XX.



Document No.: 11312

Revision: 25-Aug-2015

General Purpose Strain Gages—Linear Pattern

GAGE PATTER	N DATA						
	1			GAC DESIGN	ATION	RESISTAI (OHMS	S) AVAILABLE
MAAA	MARARARA			See No	ote 1		See Note 2
		actual size			DUW-175 DUW-350 DUW-10C		3% P2 3% P2
GAGE DIN	MENSIONS	ES = Each Section S = Section (S1	on		= Complete = Matrix	Pattern	inch millimeter
Gage Length	Overall Length	Grid Width	Over	rall Width	Matrix	Length	Matrix Width
0.250	0.450	0.180	(0.180	0.	55	0.27
6.35	11.43	4.57		4.57	14	1.0	6.9

GAGE SERIES DATA — See Gage Series datasheet for complete specifications							
Series	ries Description Strain Range Temperature Range						
CEA	Universal general-purpose strain gages.	±5%	-100° to +350°F (-75° to +175°C)				

Note 1: Insert desired S-T-C number in spaces marked XX.



GAGE PATTER	N DATA						
	A			GAC DESIGN		RESISTAN (OHMS)	
				See No	ote 1		See Note 2
	actual size				GUW-120 GUW-350 FION Irpose gao in (2.5 x 1.		• • • • • • • • • • • • • • • • • • • •
GAGE DIN	MENSIONS	ES = Each Section S = Section (S1	on	egend CP = on 1) M =	= Complete = Matrix	Pattern	inch millimeter
Gage Length	Overall Length	Grid Width	Over	all Width	Matrix	Length	Matrix Width
0.375	0.575	0.180	(0.180	0.	67	0.27
9.53	14.61	4.57		4.57	17	7.0	6.9

GAGE SERIES DATA — See Gage Series datasheet for complete specifications						
Series	ies Description		Temperature Range			
CEA	Universal general-purpose strain gages.	±5%	-100° to +350°F (-75° to +175°C)			

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Products with designations and options shown in **bold** are not RoHS compliant.



GAGE PATTER	N DATA						
	<u>EMEME</u>			GAC DESIGN		RESISTAN (OHMS	
	A			See Not	te 1, 3	See Note	See Note 3
		actual size			BH-350 BH-120 BH-350 BH-120 BH-120 BH-350 BH-350 BH-350		3% E, L*, LE* W* W* S% S% S% S% S% S% S% S
GAGE DIN	MENSIONS	ES = Each Section S = Section (S1	on		= Complete = Matrix	Pattern	inch millimeter
Gage Length	Overall Length	Grid Width	Over	rall Width	Matrix	Length	Matrix Width
0.500	0.720	0.175	(0.175	0.	92	0.30
12.70	18.29	4.45		4.45	23	3.4	7.6

GAGE SERIES DATA — See Gage Series datasheet for complete specifications							
Series	Description Strain Range		Temperature Range				
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±5%	-100° to +350°F (-75° to +175°C)				
ED	Isoelastic foil in combination with tough, flexible polyimide film.	±2%	-320° to +400°F (-195° to +205°C)				
WA	Fully encapsulated constantan gages with high-endurance leadwires.	±2%	-100° to +400°F (-75° to +205°)				
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)				
EP	Annealed constantan foil with tough, high-elongation polyimide backing.	±20%	-100° to +400°F (-75° to +205°C)				
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)				
SK	Fully encapsulated K-alloy gages with solder dots.	±1.5%	-452° to +450°F (-269° to +230°C)				
SD	Equivalent to WD Series, but with solder dots instead of leadwires.	±1.5%	-320° to +400°F (-195° to +205°C)				
WD	Fully encapsulated isoelastic gages with high-endurance leadwires.	±1.5%	-320° to +500°F (-195° to +260°C)				

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.

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



GAGE PATTER	N DATA						
	A			GAC DESIGN		RESISTAN (OHMS	
				See No	ote 1		See Note 2
		actual size		DESCRIPT	TION	120 ± 0.3 350 ± 0.3	· -
US 2				0.10 x 0.07			
GAGE DIMENSIONS		ES = Each Section (S1	on		= Complete = Matrix	Pattern	inch millimeter
Gage Length	Overall Length	Grid Width	Over	all Width	Matrix	Length	Matrix Width
0.500	0.700	0.180	(0.180	0.	80	0.27
12.70	17.78	4.57		4.57	20).3	6.9

GAGI	GAGE SERIES DATA — See Gage Series datasheet for complete specifications						
Series	Description	Strain Range	Temperature Range				
CEA	Universal general-purpose strain gages.	±5%	-100° to +350°F (-75° to +175°C)				

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.



GAGE PATTER	N DATA						
				GAC DESIGN		RESISTAN (OHMS	
nr	חחח			See Not	te 1, 3	See Note	See Note 3
		actual size		N2A-XX-10C N2A-XX-10CE WA-XX-10CE WA-XX-10CE EP-XX-10CE SA-XX-10C SK-XX-10C	CBE-350 BE-120 CBE-120 BE-350 BE-120 BE-120 BE-350	120 ± 0.1 350 ± 0.1 120 ± 0.3 350 ± 0.3 120 ± 0.1 120 ± 0.3 350 ± 0.3	W, E, L, LE, P W, E, L, LE, P W, E, L, LE, P W* W* W*
GAGE DIM	ES = Each Section (S1	on		= Complete = Matrix	Pattern	inch millimeter	
Gage Length	Overall Length	Grid Width	Over	all Width	Matrix	Length	Matrix Width
1.000	1.250	0.250	(0.250	1.	36	0.33
25.40	31.75	6.35		6.35	34	1.5	8.4

GAGI	GAGE SERIES DATA — See Gage Series datasheet for complete specifications								
Series	Description	Strain Range	Temperature Range						
N2A	Constantan foil gages with a thin, laminated, polyimide-film backing.	±3%	-100° to +200°F (-75° to +95°C)						
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±5%	-100° to +350°F (-75° to +175°C)						
WA	Fully encapsulated constantan gages with high-endurance leadwires.	±2%	-100° to +400°F (-75° to +205°)						
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)						
EP	Annealed constantan foil with tough, high-elongation polyimide backing.	±20%	-100° to +400°F (-75° to +205°C)						
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)						
SK	Fully encapsulated K-alloy gages with solder dots.	±1.5%	-452° to +450°F (-269° to +230°C)						

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.

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



GAGE PATTER	N DATA						
				GAC DESIGN. See Not N2A-XX-20C N2A-XX-20C EA-XX-20C WA-XX-20C EP-XX-20C SA-XX-20C SK-XX-20C	ATION te 1, 3 CBW-120 CBW-350 BW-120 EBW-120 BW-350 BW-120 BW-120 BW-120 BW-120	RESISTANC (OHMS) See Note 2 120 ± 0.29 350 ± 0.29 120 ± 0.29 350 ± 0.49 120 ± 0.49 350 ± 0.49 350 ± 0.49	AVAILABLE See Note 3 W, E, L, LE, P W, E, L, LE, P W, E, L, LE, P W* W* W*
		actual size		specimens.	concrete a		tegration on large
GAGE DIN	MENSIONS	ES = Each Section S = Section (S1			Complete Matrix	Pattern	millimeter
Gage Length	Overall Length	Grid Width	Over	all Width	Matrix	Length	Matrix Width
2.000	2.250	0.188		0.188		46	0.32
50.80	57.15	4.78		4.78	62	2.5	8.1

GAGI	GAGE SERIES DATA — See Gage Series datasheet for complete specifications								
Series	Description	Strain Range	Temperature Range						
N2A	Constantan foil gages with a thin, laminated, polyimide-film backing.	±3%	-100° to +200°F (-75° to +95°C)						
EA	Constantan foil in combination with a tough, flexible, polyimide backing.	±5%	-100° to +350°F (-75° to +175°C)						
WA	Fully encapsulated constantan gages with high-endurance leadwires.	±2%	-100° to +400°F (-75° to +205°)						
WK	Fully encapsulated K-alloy gages with high-endurance leadwires.	±1.5%	-452° to +550°F (-269° to +290°C)						
EP	Annealed constantan foil with tough, high-elongation polyimide backing.	±20%	-100° to +400°F (-75° to +205°C)						
SA	Fully encapsulated constantan gages with solder dots.	±2%	-100° to +400°F (-75° to +205°C)						
SK	Fully encapsulated K-alloy gages with solder dots.	±1.5%	-452° to +450°F (-269° to +230°C)						

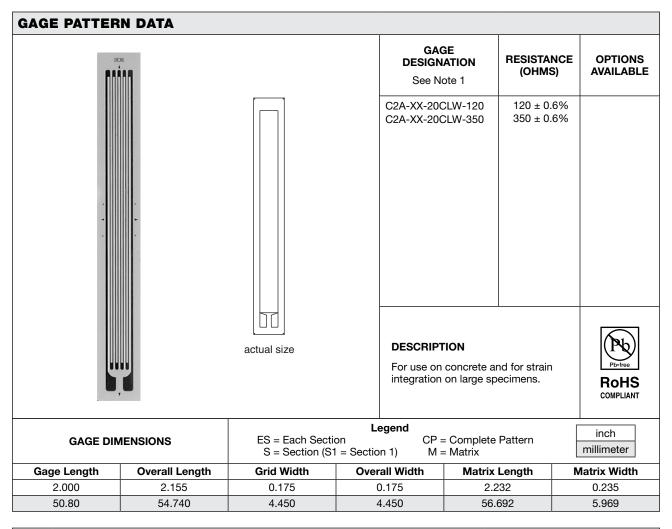
Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.

^{*}Options available but not normally recommended. See Optional Features datasheet for details.





GAGE SERIES DATA — See Gage Series datasheet for complete specifications							
Series	Description Strain Range Temperature R						
C2A	Encapsulated constantan gages with preattached ready-to-use cables.	±3%	-60° to +180°F (-50° to +80°C)				
	Example of a C2A Construction						

Note 1: Insert desired S-T-C number in spaces marked XX.



	GAGE PATTERN		GAGE SERIES	GAGE RESISTANCE	GAGE LENGTH			
	GAGE PATTER	1IN	See Note 1	(OHMS)	inches	millimeters		
			1	,				
008CL	-1-	₼	SA	120	0.008	0.2		
		actual size	Micro-grid gage for strain Matrix size: 0.20L x 0.13V		adient areas.			
015CK	- ▲ ▲ ►		EA, WA , EP, SA	120	0.015	0.38		
		[்டி] actual size	Micro-miniature pattern w Matrix size: 0.19L x 0.15V	-	See also 015	5UW pattern.		
015EH	\ \ \ /		EA, EP, SA, SK	120	0.015	0.38		
		actual size		r-miniature pattern with tab at each side of grid. x size: 0.15L x 0.19W in. (3.8L x 4.8W mm)				
015LA	\	П	EA, EP	120	0.015	0.38		
	\	actual size	Primarily used in small rad Matrix size: 0.18L x 0.10V		t be at one er	ıd.		
015SE			EA, EP, SA	120	0.015	0.38		
		[코] actual size	Micro-miniature pattern w Matrix size: 0.16L x 0.14V	use near abut	ments.			
030LB	` <u></u>		EA, EP, SA	120	0.03	0.76		
		actual size	Miniature gage pattern for Matrix size: 0.24L x 0.15V	0 0	tabs must be	at one end.		

Note 1: Products with designations and options shown in **bold** are not RoHS compliant.

See <u>www.micro-measurements.com/stress-analysis-strain-gages/other-linear-patterns/</u> for complete specifications of patterns listed. For all linear patterns offered, see <u>www.micro-measurements.com/stress-analysis-strain-gages/all-linear-patterns/</u>

Other Linear Patterns



General Purpose Strain Gages

GAGE PATTERN		GAGE SERIES See Note 1	GAGE RESISTANCE (OHMS)	GAGE LENGTH		
				inches	millimeters	
031MF		EA, SA	120	0.031	0.79	
actual size		Miniature ten-element strip gage with electrically independent grids. All grids parallel to long axis of pattern. Grid centerline spacing 0.080 in (2.03 mm). Matrix size: 0.94L x 0.19W in. (23.9L x 4.8W mm)				
032 S G		EA, WA , WK, EP, SA, SK	120	0.032	0.81	
	actual size	Miniature gage with side-t				
045AL	`	EA, SA	350	0.045	1.14	
	actual size	gage. V in. (5.6L x 3.6W mm)				
050AH	`	EA, ED, EP, SA, SK, SD	120, 350	0.05	1.27	
	actual size	General-purpose miniatur Matrix size: 0.23L x 0.14W				
050AR	· · · · · · · · · · · · · · · · · · ·	EA, ED, WA , WK, SA , SK , SD , WD	120, 350	0.05	1.27	
	actual size	General-purpose miniature gage with large solder tabs. Matrix size: 0.25L x 0.18W in. (6.4L x 4.6W mm)				
050SB		EA, ED, WA , WK, EP, SA, SK, SD , WD	120, 350	0.05	1.27	
	actual size	Similar to the 050AH patte Matrix size: 0.19L x 0.19W		at side of grid		

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GAGE PATTERN		GAGE SERIES See Note 1	GAGE RESISTANCE (OHMS)	GAGE LENGTH		
				inches	millimeters	
060CD		EA, ED, WA , WK, SA , SK , SD , WD	350, 1000	0.06	1.52	
act	ual size	Small high-resistance gag Matrix size: 0.28L x 0.20W		ern.		
060CN		EA, ED, WA , WK, EP, SA, SD , WD	120, 350	0.06	1.52	
act	ual size	Similar to 060CD pattern e		e.		
060CP		EA, ED, WA , WK, EP, SA, SK, SD , WD	120, 350	0.06	1.52	
act	ual size	Small high-resistance gage with high power-handling capability. Matrix size: 0.31L x 0.26W in. (7.9L x 6.6W mm)				
062DF		EA, ED, WA , WK, EP, SA, SK, SD , WD	120, 350	0.062	1.57	
act	actual size	General-purpose gage with solder tab at each end of grid. See also 062DN pattern. Matrix size: 0.32L x 0.16W in. (8.1L x 4.1W mm)				
070LC		EA	120, 350	0.07	1.78	
act	ual size	Very narrow gage for use in restricted areas. Matrix size: 0.24L x 0.09W in. (6.1L x 2.3W mm)				
			·			
090DG		EA, ED, EP, SA, SK, SD	120, 350	0.09	2.29	
act	ual size	Intermediate-size grid with tab at each end. See also 090DH and 090EF patterns.				
▼		Matrix size: 0.44L x 0.263\	W in. (11.2L x 6.6W mm))		

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 $See\ \underline{www.micro-measurements.com/stress-analysis-strain-gages/other-linear-patterns/}\ for\ complete\ specifications\ of\ patterns\ listed.$

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Other Linear Patterns



General Purpose Strain Gages

GAGE PATTERN		GAGE SERIES See Note 1	GAGE RESISTANCE (OHMS)	GAGE LENGTH			
				inches	millimeters		
			1	ı			
090DH	,		EA, ED, EP, SA, SK, SD	350, 1000	0.09	2.29	
	, T	actual size	High-resistance version of the 090DG pattern. Matrix size: 0.45L x 0.27W in. (11.4L x 6.9W mm)				
090EF			EA, ED, EP, SA, SK, SD	120, 350	0.09	2.29	
	- N	actual size	Similar to 090DG pattern 090EG pattern.	but with solder tab at	each side of	grid. See also	
			Matrix size: 0.29L x 0.36V	V in. (7.4L x 9.1W mm)			
090EG			EA, ED, EP, SA, SK, SD	350, 1000	0.09	2.29	
	→	actual size	High-resistance version of	•			
			Matrix size: 0.29L x 0.36V	v in. (7.4L x 9.1vv mm)			
125BS	` <u></u>	П	ED, WK, SK, SD, WD	120	0.125	3.18	
		actual size	Narrow pattern primarily used in the WK and SK Series for 120-ohm resistance. Matrix size: 0.38L x 0.14W in. (9.7L x 3.6W mm)				
125EP			EA, ED, EP, SA, SK, SD	350, 1000	0.125	3.18	
		actual size	High-resistance gage with	n tab at each side of grid	. See also 125	EQ pattern.	
			Matrix size: 0.28L x 0.35W	V in. (7.1L x 8.9W mm)			
125EQ			EA, ED, EP, SA, SK, SD	120, 350	0.125	3.18	
	- T	actual size	Similar to 125EP pattern e	-	э.		

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For all linear patterns offered, see www.micro-measurements.com/stress-analysis-strain-gages/all-linear-patterns/





GAGE PATTERN		GAGE SERIES	GAGE RESISTANCE	GAGE LENGTH				
		See Note 1	(OHMS)	inches	millimeters			
125MG			EA, WA, WK, SA, SK	120, 350	0.125	3.18		
		actual size	Dual-pattern gage for use in back-to-back bending applications. Long grid centerlines spaced 0.250 in (6.35 mm) apart. Matrix size: 0.32L x 0.47W in. (8.1L x 11.9W mm)					
125UE			CEA	120, 350	0.125	3.18		
			General-purpose gage wir area 0.08 x 0.07 in (2.0 x 1		l of grid. Expo	sed solder tab		
	-	actual size	Matrix size: 0.57L x 0.20W	/ in. (14.5L x 5.1W mm)				
			T	<u> </u>				
230DS		R	EA, ED, WA , WK, EP, SA, SK, SD, WD	120, 350	0.23	5.84		
	· • • • • • • • • • • • • • • • • • • •		General-purpose gage with very narrow geometry.					
		actual size	Matrix size: 0.50L x 0.12W	V in. (12.7L x 3.0W mm)				
			T					
250AF	`		EA, ED, WA , WK, EP, SA , SK , SD , WD	120, 350	0.25	6.35		
			General-purpose gage wit	th high-dissipation grid.				
	₩,₩	actual size	Matrix size: 0.57L x 0.36W in. (14.5L x 9.1W mm)					
250BB	,		EA, ED, EP	120, 350	0.25	6.35		
,			General-purpose gage with large solder tabs.					
	U , U	actual size						
				(10.02 / 0.014 11111)				
250BK			EA, WA, WK, SA, SK	1000, 3000	0.25	6.35		
			High-resistance gage with good power dissipation capability for high output applications or use on plastics.					
	U, U	actual size	Matrix size: 0.58L x 0.27W					
			•					

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For all linear patterns offered, see www.micro-measurements.com/stress-analysis-strain-gages/all-linear-patterns/

Other Linear Patterns



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General Purpose Strain Gages

GAGE PATTERN		DNI	GAGE SERIES	GAGE RESISTANCE	GAGE LENGTH		
		See Note 1	(OHMS)	inches	millimeters		
250BM	<u>`</u>		EA, ED, WA , WK, EP, SA , SK , SD , WD	500, 1500	0.25	6.35	
	· `	actual size	General-purpose gage with	9			
			Matrix size: 0.58L x 0.27V	V III. (14.7L X 6.9VV IIIII)			
250BP	, <u>i</u>		SK, WK, ED, SD, WD	120	0.25	6.35	
			A general-purpose gage SK and WK Series.	used primarily to obtain	120-ohm gri	d resistance in	
	D, a	actual size	Matrix size: 0.53L x 0.22V	V in. (13.5L x 5.6W mm)			
250MQ			EA, ED, EK, WA , WK, SA , SK , SD , WD	350, 1000	0.25	6.35	
			Dual pattern for back-to-back bending applications. Longitudinal grid centerlines are spaced 0.185 in (4.70 mm) apart. EK-Series gages are supplied with duplex copper pads (DP) when optional feature W or SE is not specified.				
	-,-,-		Matrix size: 0.47L x 0.40V	V in. (11.9L x 10.2W mm))		
350DD		actual size	EA, ED, WA , WK, EP, SA , SK , SD , WD	350, 1000	0.35	8.89	
			General-purpose gage with narrow pattern geometry and tab at each end of grid.				
	—		Matrix size: 0.61L x 0.18V	V in. (15.5L x 4.6W mm)			
375BG	, , ,		EA, ED, WA , WK, EP, SA , SK , SD , WD	120, 350	0.375	9.53	
	,		General-purpose gage.				
		actual size	Matrix size: 0.71L x 0.29V	V in. (18.0L x 7.4W mm)			
				(.0.02 x 77 100 11111)			
500BL	500BL		EA, ED, WA , WK, EP, SA , SK , SD , WD	350, 1000	0.5	12.7	
			Widely used general-purpose gage with compact geometry.				
	₩,₩	actual size	Matrix size: 0.87L x 0.27V	V in. (22.1L x 6.9W mm)			

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See <u>www.micro-measurements.com/stress-analysis-strain-gages/other-linear-patterns/</u> for complete specifications of patterns listed. For all linear patterns offered, see <u>www.micro-measurements.com/stress-analysis-strain-gages/all-linear-patterns/</u>





GAGE PATTERN		GAGE SERIES	GAGE RESISTANCE	GAGE LENGTH		
		See Note 1	(OHMS)	inches	millimeters	
500GB	\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	EA, ED, WA , WK, EP, SA , SK , SD , WD	120, 350	0.5	12.7	
	actual size	General-purpose gage wi Matrix size: 0.75L x 0.15V		. See also 500	OGC pattern.	
500GC	- XA/	EA, ED, WA, WK, EP, SA, SK, SD, WD	350, 1000	0.5	12.7	
	actual size	General-purpose gage with very narrow geometry. Matrix size: 0.78L x 0.15W in. (19.8L x 3.8W mm)				
40CBY	<u> </u>	N2A, EA, WA , WK, EP, SA, SK	120, 350	4	101.6	
	200/ of actual circ	For use on concrete and f	G	•	ns.	
	30% of actual size	Matrix size: 4.49L x 0.33W in. (114.0L x 8.4W mm)				

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See www.vishaypg.com/micro-measurements/stress-analysis-strain-gages/other-linear-patterns/ for complete specifications.

For all linear patterns offered, see www.micro-measurements.com/stress-analysis-strain-gages/all-linear-patterns/

