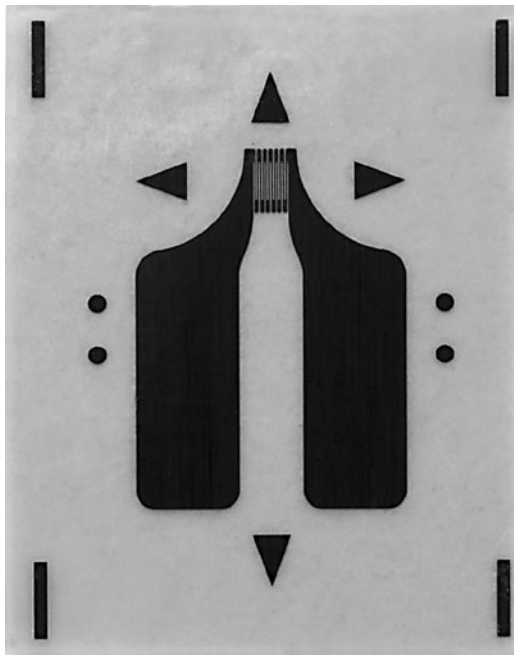


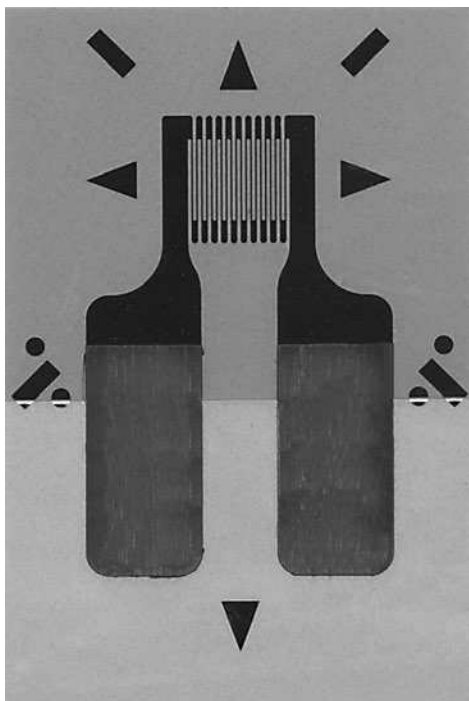
General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA					
 actual size			GAGE DESIGNATION	RESISTANCE (OHMS)	OPTIONS AVAILABLE
			CEA-XX-015UW-120	120 ± 0.3%	
			DESCRIPTION Micro-miniature pattern. Exposed solder tab area is 0.06 x 0.04 (1.5 x 1.0 mm). See also 015CK pattern		
GAGE DIMENSIONS		Legend 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
0.015	0.140	0.020	0.105	0.24	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.

General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA						
			GAGE DESIGNATION See Notes 1, 2 and 3		RESISTANCE (OHMS)	OPTIONS AVAILABLE
			CEA-XX-032UWA-120 CEA-XX-032UWA-350 W2A-XX-032UW-120 W2A-XX-032UW-350		120 ±0.3% 350 ±0.3% 120 ±0.6% 350 ±0.6%	P2 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).			 RoHS* COMPLIANT
GAGE DIMENSIONS		Legend				inch millimeter
		ES = Each Section S = Section (S1 = Section 1) CP = Complete Pattern 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	
0.81	4.57	1.52	3.05	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)
W2A IPX8S Rated	For water-exposure applications. Based on the CEA Series with Option P2 pre-attached cables, W2A strain gages are fully enclosed with a silicone rubber coating and tested to 10 GΩ insulation resistance, 1 meter water depth, 30 minutes duration. Other requirements can be addressed on demand.	±3%	–60° to +180°F (–50° to +80°C)
 Example of the W2A construction: IPX8S Rated 			

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

Note 2: W2A leadwires are attached with lead-free solder and are RoHS compliant.

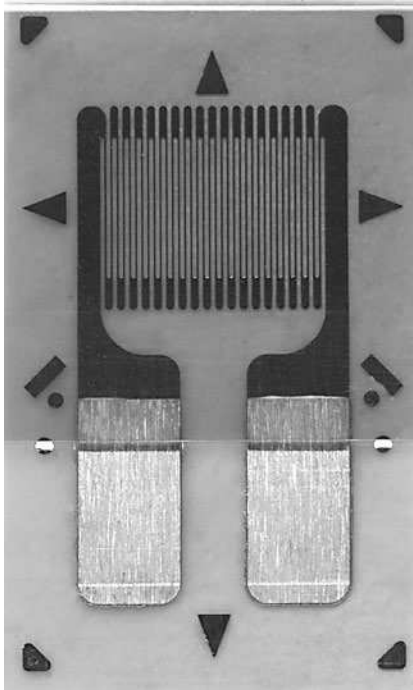
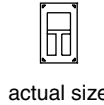
Note 3: Pattern names ending with “A” are built with Advanced Sensors Technology.

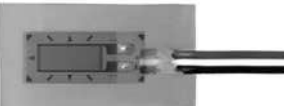
* CEA gages with Option P2 are not RoHS compliant.

Technical Data References: SEARCH our website using the document number.

11506 – Gage Series; **11507** – Optional Features

General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA					
			GAGE DESIGNATION See Notes 1, 2 and 3	RESISTANCE (OHMS)	OPTIONS AVAILABLE
			CEA-XX-062UW-120 CEA-XX-062UW-350 CEA-XX-062UWA-350 W2A-XX-062UW-120 W2A-XX-062UW-350	120 ±0.3% 350 ±0.3% 350 ±0.3% 120 ±0.6% 350 ±0.6%	P2, SP35 P2, SP35 P2, SP35
					
			DESCRIPTION General-purpose gage. Exposed solder tab area is 0.07 x 0.04 in (1.8 x 1.0 mm).		 RoHS* COMPLIANT
GAGE DIMENSIONS		Legend ES = Each Section S = Section (S1 = Section 1) CP = Complete Pattern M = Matrix			inch millimeter
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	5.59	3.05	3.05	7.9	4.8

GAGE SERIES DATA — See Gage Series datasheet for complete specifications			
Series	Description	Strain Range	Temperature Range
CEA	Universal general-purpose strain gages.	$\pm$ 3%	-100° to +350°F (-75° to +175°C)
W2A IPX8S Rated	For water-exposure applications. Based on the CEA Series with Option P2 pre-attached cables, W2A strain gages are fully enclosed with a silicone rubber coating and tested to 10 G Ω insulation resistance, 1 meter water depth, 30 minutes duration. Other requirements can be addressed on demand.	$\pm$ 3%	-60° to +180°F (-50° to +80°C)
 Example of the W2A construction: IPX8S Rated 			

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

Note 2: W2A leadwires are attached with lead-free solder and are RoHS compliant.

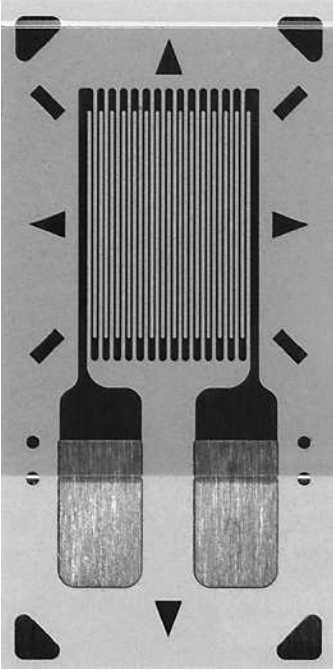
Note 3: Pattern names ending with "A" are built with Advanced Sensors Technology.

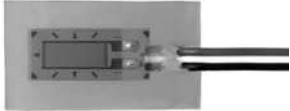
* CEA gages with Option P2 are not RoHS compliant.

Technical Data References: SEARCH our website using the document number.

11506 – Gage Series; **11507** – Optional Features

General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA					
  actual size			GAGE DESIGNATION	RESISTANCE (OHMS)	OPTIONS AVAILABLE
			See Notes 1 and 4	See Note 3	
			CEA-XX-125UNA-120 CEA-XX-125UNA-350 W2A-XX-125UN-120 W2A-XX-125UN-350	120 ± 0.3% 350 ± 0.2% 120 ± 0.6% 350 ± 0.6%	P2, SP35 P2, SP35
DESCRIPTION General-purpose gage with narrow geometry. Exposed solder tab area 0.06 x 0.05 in (1.5 x 1.1 mm).					 RoHS* COMPLIANT
GAGE DIMENSIONS		Legend			inch millimeter
		ES = Each Section S = Section (S1 = Section 1)	CP = Complete Pattern M = Matrix		
Gage Length	Overall Length	Grid Width	Overall 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)
W2A IPX8S Rated	For water-exposure applications. Based on the CEA Series with Option P2 pre-attached cables, W2A strain gages are fully enclosed with a silicone rubber coating and tested to 10 GΩ insulation resistance, 1 meter water depth, 30 minutes duration. Other requirements can be addressed on demand.	±3%	–60° to +180°F (–50° to +80°C)
 Example of the W2A construction: IPX8S Rated 			

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

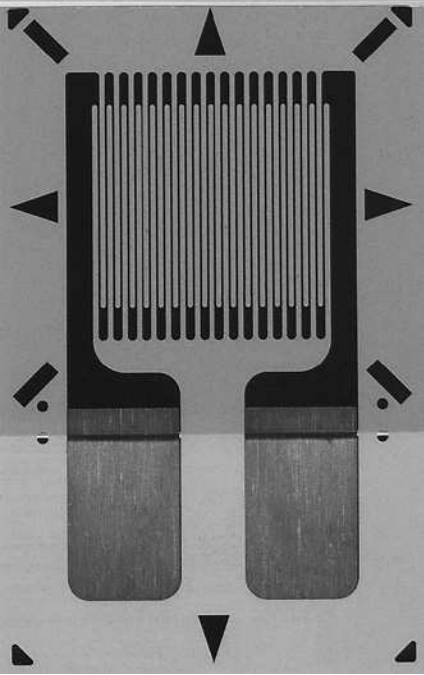
Note 2: W2A leadwires are attached with lead-free solder and are RoHS compliant.

Note 3: Pattern names ending with “A” are built with Advanced Sensors Technology.

Technical Data References: SEARCH our website using the document number.

11506 – Gage Series; **11507** – Optional Features

General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA					
		GAGE DESIGNATION See Notes 1 and 4	RESISTANCE (OHMS) See Note 3	OPTIONS AVAILABLE	
		CEA-XX-125UWA-120 CEA-XX-125UWA-350 W2A-XX-125UW-120 W2A-XX-125UW-350	120 ± 0.3% 350 ± 0.2% 120 ± 0.6% 350 ± 0.6%	P2, SP35 P2, SP35	
 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.		 RoHS* COMPLIANT	
GAGE DIMENSIONS		Legend ES = Each Section S = Section (S1 = Section 1) CP = Complete Pattern M = Matrix			inch millimeter
Gage Length	Overall Length	Grid Width	Overall Width	Matrix Length	Matrix Width
0.125	0.325	0.180	0.180	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)
W2A IPX8S Rated	For water-exposure applications. Based on the CEA Series with Option P2 pre-attached cables, W2A strain gages are fully enclosed with a silicone rubber coating and tested to 10 GΩ insulation resistance, 1 meter water depth, 30 minutes duration. Other requirements can be addressed on demand.	±3%	–60° to +180°F (–50° to +80°C)
 Example of the W2A construction: IPX8S Rated 			

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

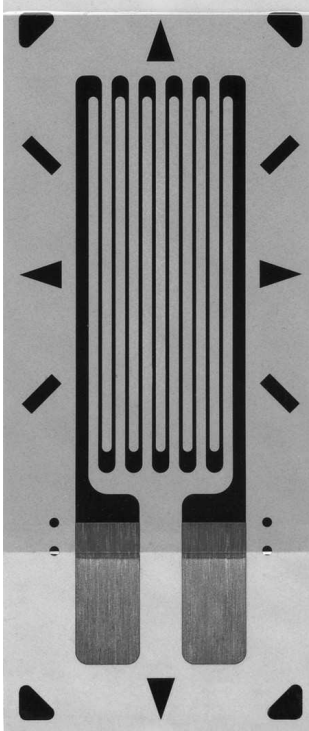
Note 2: W2A leadwires are attached with lead-free solder and are RoHS compliant.

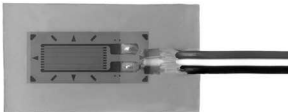
Note 3: Pattern names ending with “A” are built with Advanced Sensors Technology.

Technical Data References: SEARCH our website using the document number.

11506 – Gage Series; **11507** – Optional Features

General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA					
  actual size			GAGE DESIGNATION	RESISTANCE (OHMS)	OPTIONS AVAILABLE
			See Notes 1, 2 and 3	See Note 3	
			CEA-XX-250UNA-120 W2A-XX-250UN-120 W2A-XX-250UN-350 CEA-XX-250UNA-350	120 $\pm$ 0.3% 120 $\pm$ 0.6% 350 $\pm$ 0.6% 350 $\pm$ 0.2%	P2, SP35 P2, SP35
DESCRIPTION General-purpose gage with narrow geometry. Exposed solder tab area 0.08 x 0.05 in (2.0 x 1.1 mm). See also 250UW pattern.					 Available RoHS* COMPLIANT
GAGE DIMENSIONS		Legend ES = Each Section S = Section (S1 = Section 1) CP = Complete Pattern M = Matrix			
					inch millimeter
Gage Length	Overall Length	Grid Width	Overall 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	13.2	5.6

GAGE SERIES DATA — See Gage Series datasheet for complete specifications			
Series	Description	Strain Range	Temperature Range
CEA	Universal general-purpose strain gages.	$\pm$ 5%	-100° to +350°F (-75° to +175°C)
W2A IPX8S Rated	For water-exposure applications. Based on the CEA Series with Option P2 pre-attached cables, W2A strain gages are fully enclosed with a silicone rubber coating and tested to 10 G Ω insulation resistance, 1 meter water depth, 30 minutes duration. Other requirements can be addressed on demand.	$\pm$ 3%	-60° to +180°F (-50° to +80°C)
 Example of the W2A construction: IPX8S Rated 			

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

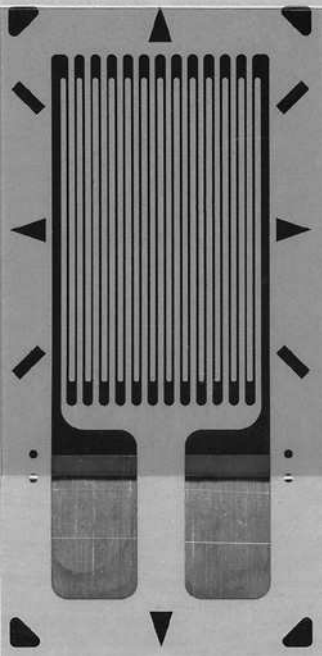
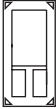
Note 2: W2A leadwires are attached with lead-free solder and are RoHS compliant.

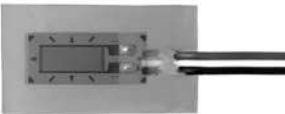
Note 3: Pattern names ending with "A" are built with Advanced Sensors Technology.

Technical Data References: SEARCH our website using the document number.

11506 – Gage Series; **11507** – Optional Features

General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA					
  actual size		GAGE DESIGNATION	RESISTANCE (OHMS)	OPTIONS AVAILABLE	
		See Notes 1 and 4	See Note 3		
		CEA-XX-250UWA-120 CEA-XX-250UW-175 CEA-XX-250UWA-350 CEA-XX-250UW-10C W2A-XX-250UW-120 W2A-XX-250UW-175 W2A-XX-250UW-350 W2A-XX-250UW-10C	120 ± 0.3% 175 ± 0.3% 350 ± 0.3% 1000 ± 0.3% 120 ± 0.6% 175 ± 0.6% 350 ± 0.6% 1000 ± 0.6%	P2, SP35 P2, SP35 P2, SP35 P2, SP35	
		DESCRIPTION General-purpose gage. Exposed solder tab area 0.10 x 0.07 in (2.5 x 1.8 mm). See also 250UN pattern.			 RoHS* COMPLIANT
GAGE DIMENSIONS		Legend 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
0.250	0.450	0.180	0.180	0.55	0.27
6.35	11.43	4.57	4.57	14.0	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)
W2A IPX8S Rated	For water-exposure applications. Based on the CEA Series with Option P2 pre-attached cables, W2A strain gages are fully enclosed with a silicone rubber coating and tested to 10 GΩ insulation resistance, 1 meter water depth, 30 minutes duration. Other requirements can be addressed on demand.	±3%	–60° to +180°F (–50° to +80°C)
 Example of the W2A construction: IPX8S Rated 			

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

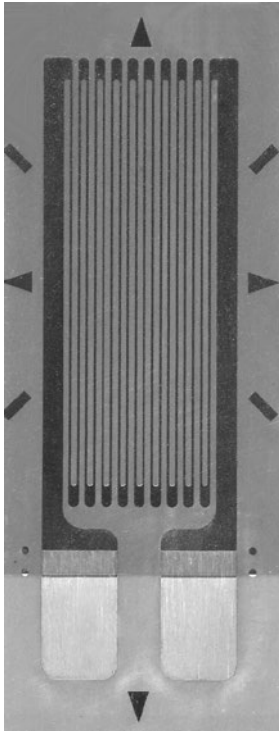
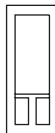
Note 2: W2A leadwires are attached with lead-free solder and are RoHS compliant.

Note 3: Pattern names ending with “A” are built with Advanced Sensors Technology.

Technical Data References: SEARCH our website using the document number.

11506 – Gage Series; **11507** – Optional Features

General Purpose Strain Gages—Linear Pattern

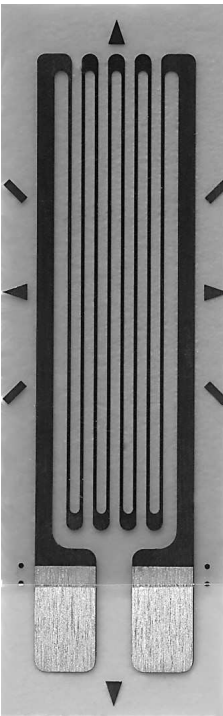
GAGE PATTERN DATA						
		 actual size		GAGE DESIGNATION See Note 1	RESISTANCE (OHMS)	OPTIONS AVAILABLE See Note 2
				CEA-XX-375UWA-120 CEA-XX-375UWA-350	120 ± 0.3% 350 ± 0.3%	P2 P2
				DESCRIPTION General-purpose gage. Exposed solder tab area 0.10 x 0.07 in (2.5 x 1.8 mm).		
GAGE DIMENSIONS		Legend 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	
0.375	0.575	0.180	0.180	0.67	0.27	
9.53	14.61	4.57	4.57	17.0	6.9	

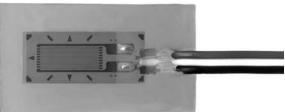
GAGE SERIES DATA — See Gage Series datasheet for complete specifications			
Series	Description	Strain Range	Temperature Range
CEA	Universal general-purpose strain gages.	±5%	−100° to +350°F (−75° to +175°C)

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

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

General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA					
  actual size			GAGE DESIGNATION	RESISTANCE (OHMS)	OPTIONS AVAILABLE
			See Notes 1, 2 and 3	See Note 3	
			CEA-XX-500UWA-120 W2A-XX-500UW-120 W2A-XX-500UW-350 CEA-XX-500UWA-350	120 $\pm$ 0.3% 120 $\pm$ 0.6% 350 $\pm$ 0.6% 350 $\pm$ 0.3%	P2, SP35 P2, SP35
DESCRIPTION General-purpose gage. Exposed solder tab area 0.10 x 0.07 in (2.5 x 1.8 mm).					 RoHS* COMPLIANT
GAGE DIMENSIONS			Legend ES = Each Section S = Section (S1 = Section 1) CP = Complete Pattern M = Matrix		
			inch millimeter		
Gage Length	Overall Length	Grid Width	Overall 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

GAGE SERIES DATA — See Gage Series datasheet for complete specifications			
Series	Description	Strain Range	Temperature Range
CEA	Universal general-purpose strain gages.	$\pm$ 5%	-100° to +350°F (-75° to +175°C)
W2A IPX8S Rated	For water-exposure applications. Based on the CEA Series with Option P2 pre-attached cables, W2A strain gages are fully enclosed with a silicone rubber coating and tested to 10 G Ω insulation resistance, 1 meter water depth, 30 minutes duration. Other requirements can be addressed on demand.	$\pm$ 3%	-60° to +180°F (-50° to +80°C)
 Example of the W2A construction: IPX8S Rated 			

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

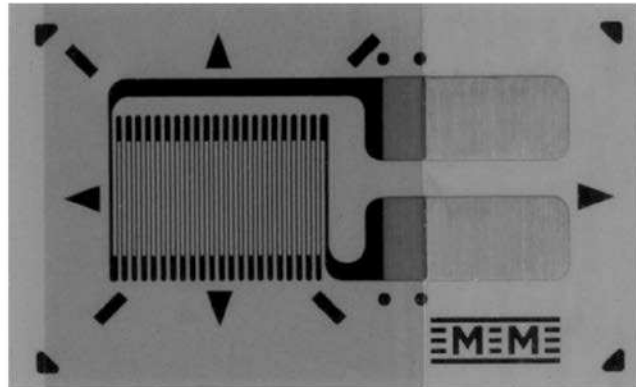
Note 2: W2A leadwires are attached with lead-free solder and are RoHS compliant.

Note 3: Pattern names ending with "A" are built with Advanced Sensors Technology.

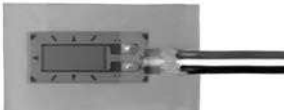
Technical Data References: SEARCH our website using the document number.

11506 – Gage Series; **11507** – Optional Features

General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA						
  actual size			GAGE DESIGNATION See Notes 1, 2	RESISTANCE (OHMS) See Note 3	OPTIONS AVAILABLE	
			CEA-XX-062UB-350 W2A-XX-062UB-350	350 ±0.3% 350 ±0.6%	P2, SP35	
			DESCRIPTION General-purpose gage. Exposed solder tab area is 0.10 x 0.045 in (2.5 x 1.14 mm).		 RoHS* COMPLIANT	
GAGE DIMENSIONS		Legend ES = Each Section S = Section (S1 = Section 1) CP = Complete Pattern M = Matrix			inch millimeter	
Gage Length	Overall Length	Grid Width	Overall Width	Matrix Length	Matrix Width	
0.062	0.110	0.120	0.250	0.21	0.34	
1.57	2.79	3.05	6.35	5.3	8.6	

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)
W2A IPX8S Rated	For water-exposure applications. Based on the CEA Series with Option P2 pre-attached cables, W2A strain gages are fully enclosed with a silicone rubber coating and tested to 10 GΩ insulation resistance, 1 meter water depth, 30 minutes duration. Other requirements can be addressed on demand.	±3%	–60° to +180°F (–50° to +80°C)

	Example of the W2A construction: IPX8S Rated	
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Note 1: Insert desired S-T-C number in spaces marked XX.

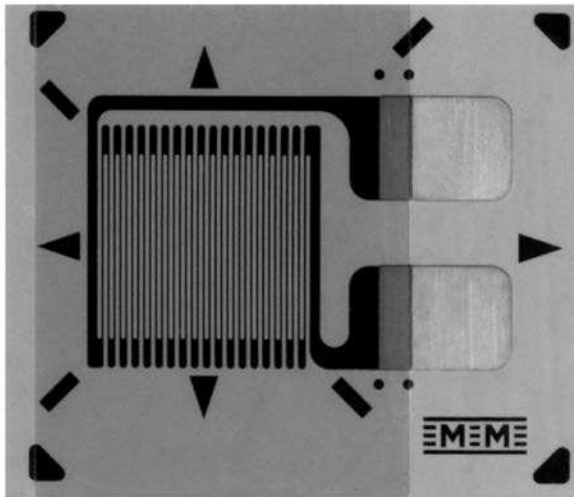
Note 2: W2A leadwires are attached with lead-free solder and are RoHS compliant.

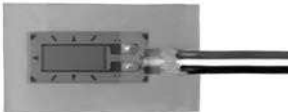
* CEA gages with Option P2 are not RoHS compliant.

Technical Data References: SEARCH our website using the document number.

11506 – Gage Series; **11507** – Optional Features

General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA					
  actual size			GAGE DESIGNATION See Notes 1, 2	RESISTANCE (OHMS) See Note 3	OPTIONS AVAILABLE
			CEA-XX-125UB-350 W2A-XX-125UB-350	350 ±0.3% 350 ±0.6%	P2, SP35
			DESCRIPTION General-purpose gage. Exposed solder tab area is 0.10 x 0.07 in (2.5 x 1.8 mm).		 Available RoHS* COMPLIANT
GAGE DIMENSIONS		Legend ES = Each Section S = Section (S1 = Section 1) CP = Complete Pattern M = Matrix			inch millimeter
Gage Length	Overall Length	Grid Width	Overall Width	Matrix Length	Matrix Width
0.125	0.185	0.160	0.290	0.34	0.39
3.18	4.70	4.06	7.37	8.6	9.9

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)
W2A IPX8S Rated	For water-exposure applications. Based on the CEA Series with Option P2 pre-attached cables, W2A strain gages are fully enclosed with a silicone rubber coating and tested to 10 GΩ insulation resistance, 1 meter water depth, 30 minutes duration. Other requirements can be addressed on demand.	±3%	−60° to +180°F (−50° to +80°C)
 Example of the W2A construction: IPX8S Rated 			

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

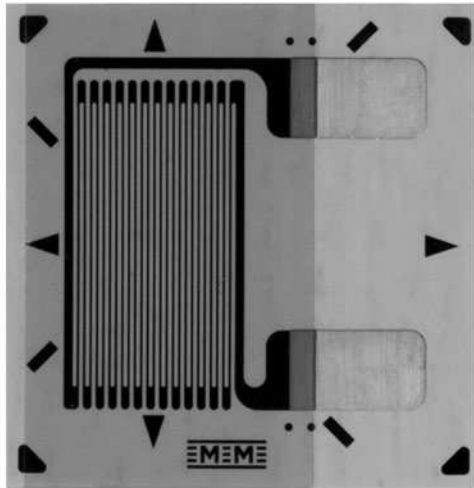
Note 2: W2A leadwires are attached with lead-free solder and are RoHS compliant.

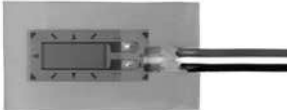
* CEA gages with Option P2 are not RoHS compliant.

Technical Data References: SEARCH our website using the document number.

11506 – Gage Series; **11507** – Optional Features

General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA					
  actual size			GAGE DESIGNATION See Notes 1, 2 and 3	RESISTANCE (OHMS) See Note 3	OPTIONS AVAILABLE
			CEA-XX-250UBA-350 W2A-XX-250UB-350	350 ±0.3% 350 ±0.6%	P2, SP35
			DESCRIPTION General-purpose gage. Exposed solder tab area is 0.10 x 0.07 in (2.5 x 1.8 mm).		 RoHS* COMPLIANT
GAGE DIMENSIONS		Legend ES = Each Section S = Section (S1 = Section 1) CP = Complete Pattern M = Matrix			inch millimeter
Gage Length	Overall Length	Grid Width	Overall Width	Matrix Length	Matrix Width
0.250	0.310	0.160	0.320	0.42	0.42
6.35	7.87	4.06	8.130	10.7	10.7

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)
W2A IPX8S Rated	For water-exposure applications. Based on the CEA Series with Option P2 pre-attached cables, W2A strain gages are fully enclosed with a silicone rubber coating and tested to 10 GΩ insulation resistance, 1 meter water depth, 30 minutes duration. Other requirements can be addressed on demand.	±3%	–60° to +180°F (–50° to +80°C)
 Example of the W2A construction: IPX8S Rated 			

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

Note 2: W2A leadwires are attached with lead-free solder and are RoHS compliant.

Note 3: Pattern names ending with “A” are built with Advanced Sensors Technology.

* CEA gages with Option P2 are not RoHS compliant.

Technical Data References: SEARCH our website using the document number.

11506 – Gage Series; **11507** – Optional Features