

GAGE PATTER	N DATA						
		1		GAG DESIGN See No	GE ATION ote 1	RESISTAN (OHMS	ICE OPTIONS) AVAILABLE
		actua	l size	CEA-XX-015 DESCRIPT Micro-minia solder tab	TON ature patte area is 0.06	120 ± 0.3	ed Pb-free
				1.0 mm). Se	ee also 015	CK pattern	COMPLIANT
GAGE DIN	IENSIONS	ES = Each Section S = Section (S1	Le on = Sectio	egend CP = n 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

GAG	GAGE SERIES DATA — See Gage Series datasheet for complete specifications							
Series	es 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 PATTER	N DATA						
•				GAC DESIGN See Notes	GE ATION 1, 2 and 3	RESISTAN (OHMS	NCE OPTIONS AVAILABLE
-		actual] size	CEA-XX-032 CEA-XX-032 W2A-XX-033 W2A-XX-033	2UWA-120 2UWA-350 2UW-120 2UW-350	120 ±0. 350 ±0. 120 ±0. 350 ±0.	3% P2 3% P2 5% 5%
	V			DESCRIPT General-pu Exposed s 0.07 x 0.04	ION Irpose minia older tab ard in (1.8 x 1.0	ature gage. ea is) mm).	Pb-free Available RoHS* COMPLIANT
GAGE DIMENSIONS ES = Each Section S = Section (S1 = Sec				egend CP = on 1) M =	= Complete = Matrix	Pattern	inch millimeter
Gage Length	Overall Length	Grid Width	Over	rall 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 $10 \text{ G}\Omega$ 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.



GAGE PATTER	N DATA						
		9		GAC DESIGN See Notes	GE ATION 1, 2 and 3	RESISTAN (OHMS	ICE OPTIONS) AVAILABLE
		actual siz	e	CEA-XX-062 CEA-XX-062 CEA-XX-062 W2A-XX-063 W2A-XX-063	2UW-120 2UW-350 2UWA-350 2UW-120 2UW-350	120 ±0.3 350 ±0.3 350 ±0.3 120 ±0.6 350 ±0.6	 P2, SP35 P2, SP35 P2, SP35 P2, SP35 P3 P3
4		4		DESCRIP1 General-pu solder tab (1.8 x 1.0 n	FION Irpose gage area is 0.07 nm).	. Exposed x 0.04 in	Pb-free Available RoHS* COMPLIANT
GAGE DIMENSIONSES = Each SectionS = Section (S1 = Section)				egend CP = on 1) M =	= Complete = Matrix	Pattern	inch millimeter
Gage Length	Overall Length	Grid Width	Ove	rall Width	Matrix	Length	Matrix Width
0.062	0.220	0.120	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.	±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 $10 \text{ G}\Omega$ 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.



GAGE PATTER	IN DATA						
				GAC DESIGN See Notes	GE IATION s 1 and 4	RESISTAN (OHMS) See Note	ICE) AVAILABLE
		actual size	2	CEA-XX-125 CEA-XX-125 W2A-XX-12 W2A-XX-12	5UNA-120 5UNA-350 5UN-120 5UN-350	120 ± 0.3 350 ± 0.2 120 ± 0.6 350 ± 0.6	3% P2, SP35 2% P2, SP35 3% 5%
				DESCRIPT General-pu geometry. 0.06 x 0.05	FION urpose gage Exposed so 5 in (1.5 x 1. ⁻	with narrow Ider tab area 1 mm).	A A A Available RoHS* COMPLIANT
GAGE DIN	IENSIONS	ES = Each Section S = Section (S1	Le on = Section	e gend CP = n 1) M =	= Complete = Matrix	Pattern	inch millimeter
Gage Length	Overall Length	Grid Width	Over	all Width	Matrix I	Length	Matrix Width
0.125	0.275	0.100	C).120	0.3	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 $10 \text{ G}\Omega$ 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.



GAGE PATTER	N DATA						
		~		GAC DESIGN See Notes	ATION 1 and 4	RESISTAN (OHMS) See Note	CE OPTIONS AVAILABLE
		actual	size	CEA-XX-125 CEA-XX-125 W2A-XX-125 W2A-XX-125	5UWA-120 5UWA-350 5UW-120 5UW-350	$120 \pm 0.3'350 \pm 0.2'120 \pm 0.6'350 \pm 0.6'$	% P2, SP35 % P2, SP35 % %
				DESCRIPT General-pu solder tab a 1.8 mm). S	TON Irpose gage area 0.10 x ee also 125	. Exposed 0.07 (2.5 x UN pattern.	Pb-free Available RoHS* COMPLIANT
GAGE DIN	IENSIONS	ES = Each Section S = Section (S1	Lo on = Sectio	egend CP = on 1) M =	= Complete = Matrix	Pattern	inch millimeter
Gage Length	Overall Length	Grid Width	Over	all Width	Matrix	Length	Matrix Width
0.125	0.325	0.180	(0.180	0.4	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 $10 \text{ G}\Omega$ 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.



GAGE PATTER	N DATA						
				GAC DESIGN See Notes	GE ATION 1, 2 and 3	RESISTAN (OHMS) See Note	CE OPTIONS AVAILABLE
		actual size		CEA-XX-250 W2A-XX-250 W2A-XX-250 CEA-XX-250	DUNA-120 DUN-120 DUN-350 DUNA-350	120 ±0.39 120 ±0.69 350 ±0.29	6 P2, SP35 6 6 6 P2, SP35
				DESCRIPT General-pu geometry. 0.08 x 0.05 also 250UV	TION Irpose gage Exposed so i in (2.0 x 1. V pattern.	with narrow Ider tab area 1 mm). See	Pb-free Available ROHS* COMPLIANT
GAGE DIMENSIONS ES = Each Section S = Section (S1 = Sect			L on = Sectio	egend CP = on 1) M =	= 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	.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.	±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 $10 \text{ G}\Omega$ 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.



GAGE PATTER	N DATA						
				GAC DESIGN See Notes	E ATION 1 and 4	RESISTAN (OHMS) See Note	CE 3 OPTIONS AVAILABLE
		actual size		CEA-XX-250 CEA-XX-250 CEA-XX-250 W2A-XX-250 W2A-XX-250 W2A-XX-250 W2A-XX-250	UWA-120 UW-175 UWA-350 UW-10C 0UW-120 0UW-120 0UW-175 0UW-350 0UW-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 % % % % % %
				DESCRIPT General-pu solder tab a (2.5 x 1.8 m pattern.	rpose gage area 0.10 x nm). See als	. Exposed 0.07 in so 250UN	Pb-free Available RoHS* COMPLIANT
GAGE DIN	IENSIONS	ES = Each Section CP = Complete Pattern S = Section (S1 = Section 1) M = Matrix millimeter					inch millimeter
Gage Length	Overall Length	Grid Width	Over	all Width	Matrix	Length	Matrix Width
0.250	0.450	0.180	(0.180	0.5	55	0.27
6.35	11.43	4.57		4.57	14	.0	6.9

GAG	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 $10 \text{ G}\Omega$ 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 con IPX8S Rated	nstruction:	P						

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.



GAGE PATTER	N DATA						
	•			GAG DESIGN/	E ATION	RESISTANCI (OHMS)	E OPTIONS AVAILABLE
				See No	te 1		See Note 2
		actual size		CEA-XX-375 CEA-XX-375	UWA-120 UWA-350	120 ± 0.3% 350 ± 0.3%	P2 P2
	V			DESCRIPT General-pur 0.10 x 0.07	I ON rpose gag in (2.5 x 1.4	e. Exposed s 8 mm).	older tab area
GAGE DIN	MENSIONS	ES = Each Secti S = Section (S1	Le on = Sectio	egend CP = n 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	·.0	6.9
	· · · · ·			•			

GAG	GAGE SERIES DATA — See Gage Series datasheet for complete specifications							
Series	Series Description Strain Range Temperature Range							
CEA Universal general-purpose strain gages. ±5% -100° to +350°F (-75° to +17								

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 PATTERN DATA								
				GAC DESIGN See Notes	GE ATION 1, 2 and 3	RESISTAN (OHMS See Note	ICE)) ∋ 3	OPTIONS AVAILABLE
		actual size		CEA-XX-500 W2A-XX-500 W2A-XX-500 CEA-XX-500	0UWA-120 0UW-120 0UW-350 0UWA-350	120 ±0.3 120 ±0.6 350 ±0.6 350 ±0.3	3% 5% 5% 3%	P2, SP35 P2, SP35
				DESCRIPT General-pu solder tab (2.5 x 1.8 n	FION Irpose gage area 0.10 x nm).	e. Exposed 0.07 in		Pb-free Available ROHS* COMPLIANT
GAGE DIMENSIONS Legend ES = Each Section S = Section (S1 = Section 1)				egend CP = on 1) M =	= Complete = Matrix	Pattern		inch millimeter
Gage Length	Overall Length	Grid Width Overall Width Matrix Length Ma				latrix Width		
0.500	0.700	0.180	(0.180	0.8	80		0.27
12.70	17.78	4.57	4.57 4.57 20.3				6.9	

GAG	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 $10 \text{ G}\Omega$ 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.



GAGE PATTER	GAGE PATTERN DATA							
				GAC DESIGN		RESISTAN (OHMS)		OPTIONS AVAILABLE
	and the second second	A Part of the second		See Not	es 1, 2	See Note	3	
				CEA-XX-062 W2A-XX-062	2UB-350 2UB-350	350 ±0.3 350 ±0.6	9% 9%	P2, SP35
	actual size			DESCRIPT General-pu solder tab (2.5 x 1.14	TON rpose gage area is 0.10 mm).	. Exposed x 0.045 in		Pb-free Available ROHS* COMPLIANT
GAGE DIMENSIONSLegendinchES = Each SectionCP = Complete PatterninchS = Section (S1 = Section 1)M = Matrixmillimet					inch millimeter			
Gage Length	Overall Length	Grid Width	Over	all Width	Matrix	Length	Ν	latrix 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

GAG	GAGE SERIES DATA — See Gage Series datasheet for complete specifications								
Series Description			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 $10 \text{ G}\Omega$ 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.



GAGE PATTER	N DATA					-	
		/ •	i	GAC DESIGN	ÈE ATION	RESISTANCE (OHMS)	OPTIONS AVAILABLE
			1	See Not	es 1, 2	See Note 3	
				CEA-XX-125 W2A-XX-125	5UB-350 5UB-350	350 ±0.3% 350 ±0.6%	P2, SP35
	actual size			DESCRIPT General-pu solder tab a (2.5 x 1.8 n	rpose gage area is 0.10 nm).	e. Exposed x 0.07 in	Pb-free Available RoHS* COMPLIANT
GAGE DIN	MENSIONS	ES = Each Secti S = Section (S1	Le on I = Sectio	egend CP = n 1) M =	= Complete = Matrix	Pattern	inch millimeter
Gage Length	Overall Length	Grid Width	Over	all 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

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)							
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.	±3%	–60° to +180°F (–50° to +80°C)							
	addressed on demand. 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.



	IN DATA						
		. / ٦		GAO DESIGN See Notes	GE ATION 1, 2 and 3	RESISTAN (OHMS) See Note	CE OPTIONS AVAILABLE
				CEA-XX-250 W2A-XX-250	DUBA-350 DUB-350	350 ±0.3 350 ±0.6	% P2, SP35 %
	actual size			DESCRIPT General-pu solder tab (2.5 x 1.8 n	FION Irpose gage area is 0.10 nm).	. Exposed x 0.07 in	Pb-free Available ROHS* COMPLIANT
GAGE DIN	GAGE DIMENSIONS ES = Each Section CP = Complete Pattern incl S = Section (S1 = Section 1) M = Matrix millimeter					inch millimeter	
Gage Length	Overall Length	Grid Width	Over	all Width	Matrix	Length	Matrix Width
0.250	0.310	0.160	(0.320	0.4	42	0.42
6.35	7.87	4.06	8	8.130	10	.7	10.7

GAG	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 G Ω 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.