

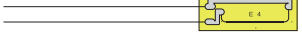

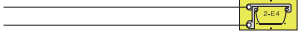
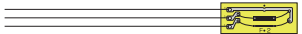
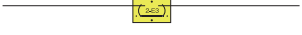
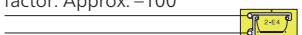
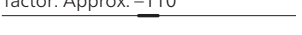
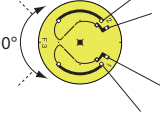
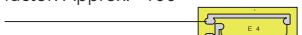


Gages for Ultra-small Strain Measurement KSP & KSN



Patterns, Gage Resistance, Gage Factor	Models	Dimensions (mm)				Remarks
		Grid		Base		
		Length	Width	Length	Width	
●KSP Series Semiconductor Strain Gages The KSP series gages are stable-performance semiconductor strain gages usable for general stress measurement and transducers. The F2 type has a half-bridge formed with 2-element, positive and negative, for self-temperature compensation and is suitable for strain measurement of steel products. Applicable Adhesives and Operating Temperature Range after Curing CC-33A: -50 to 120°C CC-36: -30 to 100°C						
Uniaxial Resistance: 120 Ω Gage factor: Approx. 120 	KSP-2-120-E3	2	0.25	5	3	
Uniaxial Resistance: 120 Ω Gage factor: Approx. 120 	KSP-2-120-E4	2	0.26	7.7	4	
Uniaxial 350Ω gage Resistance: 350 Ω Gage factor: Approx. 120 	KSP-6-350-E4	6	0.27	13	5	
Uniaxial 350Ω gage Resistance: 350 Ω Gage factor: Approx. 150 	KSP-1-350-E4	1	0.25	6.6	4	
Uniaxial 1000Ω gage Resistance: 1000 Ω Gage factor: Approx. 160 	KSP-2-1K-E4	2	0.25	7.7	4	
Uniaxial, 2-element Resistance: 120 Ω Gage factor: Approx. 225 	KSP-3-120-F2-11	3	n0.83 p0.47	10	4	A min. qty 2 PC.

Patterns, Gage Resistance, Gage Factor	Models	Dimensions (mm)				Remarks
		Grid		Base		
		Length	Width	Length	Width	
●KSN Series Self-temperature-compensation Semiconductor Strain Gages The KSN series gages use an n-type silicon for the resistive element to control the resistance temperature coefficient of the material according to the linear expansion coefficient of the measuring object. Thus, thermally-induced resistance change is minimized. Applicable Adhesives and Operating Temperature Range after Curing CC-33A: -50 to 120°C CC-36: -30 to 100°C						
Uniaxial Resistance: 120 Ω Gage factor: Approx. -100 	KSN-2-120-E3-11 KSN-2-120-E3-16	2	0.3	5	3	
Uniaxial Resistance: 120 Ω Gage factor: Approx. -100 	KSN-2-120-E4-11 KSN-2-120-E4-16	2	0.3	7.7	4	A min. qty 4 PC.
Uniaxial Resistance: 120 Ω Gage factor: Approx. -110 	KSN-2-120-E5-11 KSN-2-120-E5-16	2	0.3	—	—	Oxygen-free tin-plated copper wires 40 mm long each
Biaxial, 0°/90° Resistance: 120 Ω Gage factor: Approx. -100 	KSN-2-120-F3-11 KSN-2-120-F3-16	2	0.3	φ11	—	A min. qty 2 PC.
Uniaxial 350Ω gages Resistance: 350 Ω Gage factor: Approx. -100 	KSN-6-350-E4-11 KSN-6-350-E4-16	6	0.31	13	5	

A min. qty 4 PC.