Gages for Ultra-small Strain Measurement KSPH & KSPL

5		Dimensions (mm)					
Patterns, Gage Resistance, Gage Factor	Models	Grid	Base	Remarks			
dage Resistance, dage ractor		Length Width	Length Width				
KSPH Series High-output Semiconductor Strain Gages							
	The KSPH series gages have the		,	a hiah bridae			
Uniaxial 2000Ω gage voltage applicable to obtain high output voltage.							
Resistance: 2000 Ω	Applicable Adhesives and Operating Temperature Range after Curing Adhesives Operating Temp. after Gluing the Gages CC-33A -50 to 120°C CC-36 -30 to 100°C						
Gage factor: Approx. 170							
	KSPH-4-2K-E4	4 0.73	11 4	4 gages/ pkg			
Uniaxial 10000Ω gage Resistance: 10000 Ω							
Gage factor: Approx. 170							
	KSPH-9-10K-E4	9 0.58	16 5	4 gages/ pkg			
Patterns, Gage Resistance, Gage Factor		Dimensions (mm)					
	Models	Grid	Base	Remarks			
		Length Width	Length Width				
●KSPL Ultra Linear Semiconductor Gage							
The KSPL gage features a superior linearity of resistance change against							
Uniaxial 60Ω gage strain in a comparatively wide range, thereby making it suitable as a sensing element of transducers.							
						1103.314.1101.001.2	Applicable Adhesives and Operating Temperature Range after Curing Adhesives Operating Temp. after Gluing the Gages
Gage factor: Approx. 90	Adhesives Operating Temp. after CC-33A –50 to 12						

Encapsulated Strain Gages

The specifications on this page are the typical values and may be changed on operating conditions.

4 gages/ pkg

-Output

0.28 14

Encapsulated Strain Gages Hermetically sealed weldable strain gages are consist of sensing part and cable.

MI Cable length codes and optional accessories

E.g. 1) KHCS-10-120-G12-11 C5M for KHCS with 5 m long MI cable. 2) KHCS-10-120-G12-11 C2MV for KHCS with 2 m long MI cable and a bridge adapter pre-attached.

Options

Bridge box DB-120A/L

Connect KHCV or KCW to form a Wheatstone bridge



●DB-120A

Cable: Chloroprene-coated 5 m long, terminated a NDIS connector. Dimensions: 60 x 42 x 25 mm Weight: Approx. 600 g (Including cable)

●DB-120L (Compact plug-in type)

Cable: Removable type 5 m long, terminated a NDIS connector. Dimensions: $60 \times 20 \times 20 \text{ mm}$ Weight: Approx. 60 g (Excluding cable)

Compression fitting

For fixing MI cables. When ordering, specify it.

When ordering, specify the model together with code of the desired MI cable length, suffixed with a space in between. The suffix may include codes of the optional bridge adapter and compression fitting (See table below.) In all case, the length of soft cable is 50 cm (For extension, contact us).

MI cable length	Code of MI cable length	Bridge adapter pre-attached A	Compression fitting B	A & B
1m	C1M	C1MV	C1MF	C1MFV
2m (Std.)	C2M	C2MV	C2MF	C2MFV
3m	C3M	C3MV	C3MF	C3MFV
4m	C4M	C4MV	C4MF	C4MFV
5m	C5M	C5MV	C5MF	C5MFV
6m	C6M	C6MV	C6MF	C6MFV
8m	C8M	C8MV	C8MF	C8MFV
10m	C10M	C10MV	C10MF	C10MFV

Sensing part (2-element)

KSPL-7-60-E4



Half bridge adapter Equipped with optimum temperature compensation resistors for the operating temperature range. When delivered, it is per-attached to the soft cable to prevent erroneous wring and ensures

Quarter bridge adapter

A dedicated adapter to the KHCV, enables easy selection of the cutoff frequencies (1.6, 7.23, 16 Hz, and flat) as well as easy connection to the measuring instrument to prevent erroneous wring.

(160)



