



K5-W

静電容量式湿度センサ 低湿度計測に最適



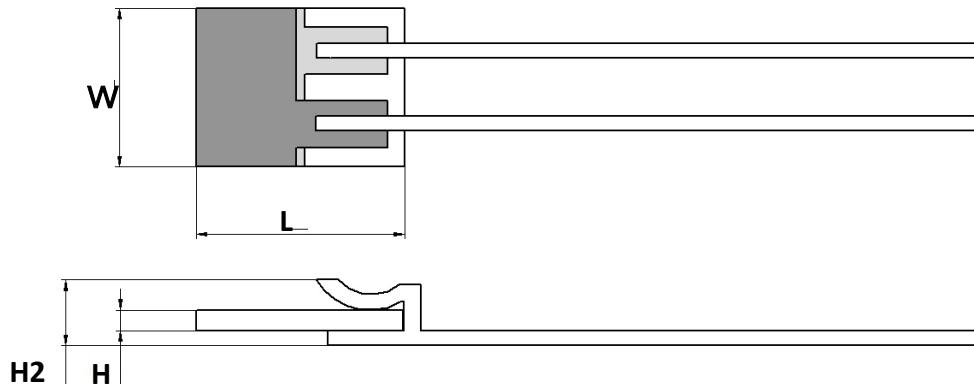
Innovative
Sensor Technology

physical. chemical. biological.

特徴

- 低湿度における高安定性
- 高い化学耐性
- 広い温度範囲
- 水滴の耐性
- 超低ドリフト
- 要望による特注センサの製作が可能

外観¹⁾



1) 寸法参照

特性

寸法 (L x W x H / H2 mm):	5 x 3.81 x 0.4 / 1.2
使用湿度範囲:	0 % RH ~ 100 % RH
使用温度範囲:	-40 °C ~ +150 °C
静電容量 (C_{30}):*	200 pF ± 50 pF (at 30 % RH, +23 °C)
感度 (at $C_{30} = 200$ pF):	0.4 pF/% RH (15 % RH ~ 90 % RH)
損失係数:	< 0.01 (23 °C, 10 kHz, 90 % RH)
直線性誤差:	< 1.5 % RH (15 % RH ~ 90 % RH +23 °C 一点校正後)
ヒステリシス:	< 1.5 % RH
応答時間 t_{63} :	< 5 s (50 % RH ~ 0 % RH +23 °C 時)
温度係数 (公称):	$\Delta \% \text{ RH} = (B1 \times \% \text{ RH} + B2) \times T [{}^\circ\text{C}] + (B3 \times \% \text{ RH} + B4)$ $B1 = 0.00004 [1/{}^\circ\text{C}]$ $B2 = 0.1842 [\% \text{ RH}/{}^\circ\text{C}]$ $B3 = -0.0010$ $B4 = -4.2370 [\% \text{ RH}]$
測定周波数範囲:	1 kHz ~ 100 kHz (推奨 10 kHz)
最大供給電圧:	< 12 V _{pp} AC
信号形態:	DCバイアスのない交流信号
接続:*	CuP-SIL 錫メッキポスト, 10 mm

* ユーザ指定により特注可能

センサの校正是早くとも半田付けの5日後にしなければならない。



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ご注文情報 - SIL (CuP-SIL 錫メッキポスト, 10 mm)

注文番号	K5 (200pF ±50pF) 040.00146
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