



HT-TC Ceramic pressure sensor

Introduction:

HT-TC ceramic piezoresistive pressure sensor is an ideal pressure sensing element, it can be packaged or directly integrated with the control circuit of the equipment.

Product Features :

- Excellent long-term stability
- Effective temperature compensation
- Operating temperature range -40 ~ + 135°C
- Can directly contact the measured medium, resistant to general acid and alkali (except hydrofluoric acid)
- Low price

Applications :

Automobile, industrial automation, water pump, petroleum, chemical industry, pneumatic equipment, hydraulic equipment, air conditioning, air compressor, etc

Electrical performance :

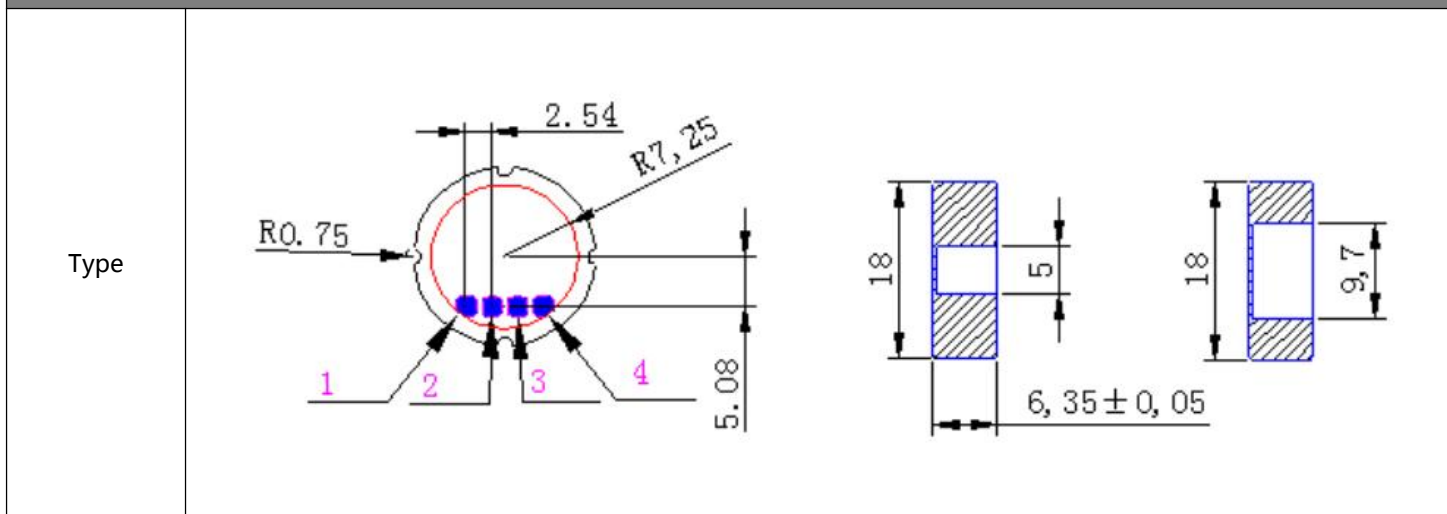
- Power Supply: $\leq 26\text{VDC}$ (Typical value: 5VDC).
- Impedance : $11\text{K}\Omega \pm 30\%$.
- Electrical Connection : 100mm high-temperature wire.



Performance Parameters:		
Measurement Range	2bar, 5bar, 10bar, 20bar, 30bar, 50bar, 100bar	
	Max	Unit
NonLinearity	± 0.3	%F.S
Repeatability	0.2	%F.S
Hysteresis	0.3	%F.S
Output	$\geq 2\text{mV/V}$	mv/V
Zero Offset Temp. Drift	$\leq \pm 0.03$	%FS/°C
Full Scale Temp. Drift	$\leq \pm 0.03\% \text{FS}/^\circ\text{C}$	%FS/°C
Operating Temperature	-30 ~ 120	°C

Storage Temperature	-50 ~ 150	°C
Allowable Overload	Take the smaller value between 3 times the full scale or 120MPa	
Burst Pressure	1.15X -3X the full scale	
Long-term Stability	0.25 %	F.S./Year
Insulation Resistance	≥200MΩ 100VDC	
Weight	~ 8g	
The parameters are tested under the following conditions: 5V @ 25°C		

Outline Construction



Ordering tips

1. When assembling, pay attention to the coordination of the core size and the transmitter housing to achieve Required tightness
2. During the housing assembly process, ensure that it is vertically aligned and apply even pressure to avoid jamming or damaging the compensation plate.
3. The lead is defined according to the label delivered with the product.

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