Feature:

TP series semiconductor strain gauge is produced by the international production and process technology. Based on piezoresistive effect, our semiconductor strain gauges (ScSG) are made from p-type silicon wafers. Its performance is better than similar domestic products, with sensitivity coefficient, mechanical hysteresis, wide resistance range, lateral effect of small properties.

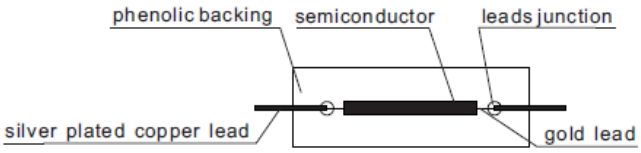
Application:

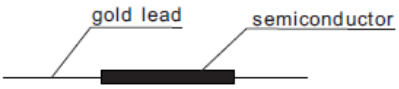
It is widely used as sense element for transducer manufacturing and engineering stress analysis, Semiconductor strain gauges are not only used for surveying stress distribution, or static measurement for machinery, ships, bridges, aviation, but also used for non-linearity compensation of force transducers.

Class:

TP class: with phenolic-resin backing

TN class: bar type, naked gauges.

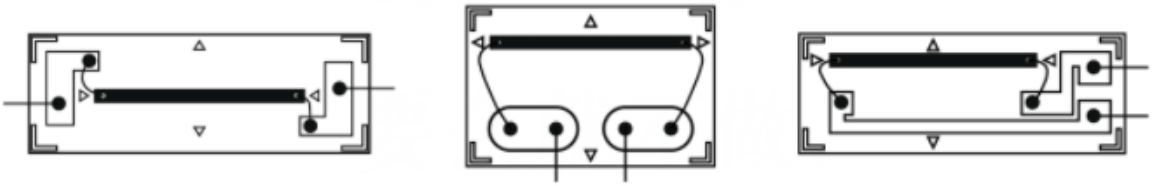




Three types of lead wire (the default is “a” type wire lead)

This is for TP series.

A **B** **C**



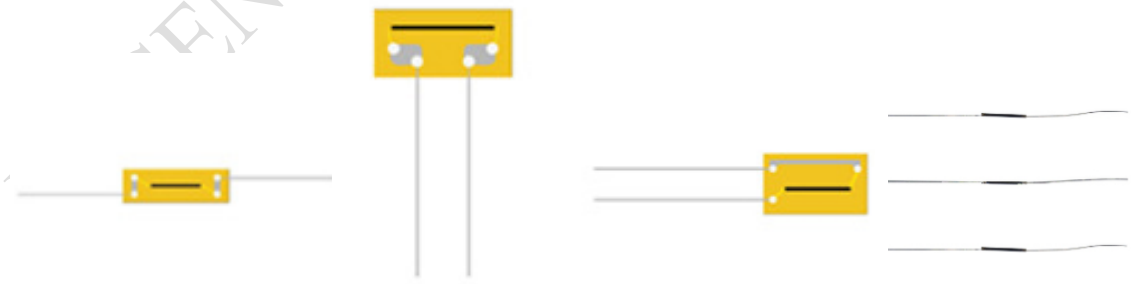
TN series is only with one type lead wire.

Gauge Pattern	Backing L X W (mm)	Crystal size(mm)	Gauge Resistance (Ω)	Gauge Factor	TCR*(1/℃)	TCGF**(1/℃)	Working Temp.(℃)	working current.(mA)	Strain Limit(με)
TP-5 TN-5	8×2.7,6x3.8,7.7x2.7	5×0.26×0.044	15 Ω	80±5%	<0.06%	<0.10%	<80	20	6000
	8×2.7,6x3.8,7.7x2.7	5×0.26×0.044	30 Ω	80±5%	<0.06%	<0.10%	<80	20	6000
	8×2.7,6x3.8,7.7x2.7	5×0.26×0.044	60 Ω	100±5%	<0.08%	<0.12%	<80	15	6000
	8×2.7,6x3.8,7.7x2.7	5×0.26×0.044	120 Ω	110±5%	<0.15%	<0.15%	<80	15	6000
	8×2.7,6x3.8,7.7x2.7	5×0.26×0.044	350 Ω	130±5%	<0.35%	<0.28%	<80	10	6000
	8×2.7,6x3.8,7.7x2.7	5×0.26×0.044	1000 Ω	150±5%	<0.40%	<0.30%	<80	5	6000
TP-3.8 TN-3.8	4.7x2.95, 6.6x2.7	3.8×0.24×0.043	15 Ω	80±5%	<0.06%	<0.10%	<80	20	6000
	4.7x2.95, 6.6x2.7	3.8×0.24×0.043	30 Ω	80±5%	<0.06%	<0.10%	<80	20	6000
	4.7x2.95, 6.6x2.7	3.8×0.24×0.043	60 Ω	100±5%	<0.08%	<0.12%	<80	15	6000
	4.7x2.95, 6.6x2.7	3.8×0.24×0.043	120 Ω	100±5%	<0.15%	<0.15%	<80	15	6000
	4.7x2.95, 6.6x2.7	3.8×0.24×0.043	350 Ω	130±5%	<0.35%	<0.28%	<80	10	6000
	4.7x2.95, 6.6x2.7	3.8×0.24×0.043	1000 Ω	150±5%	<0.40%	<0.30%	<80	5	6000
TP-3 TN-3	4.7x2.95, 6.6x2.7	3×0.23×0.042	1000 Ω	150±5%	<0.40%	<0.30%	<80	5	6000
TP-2.6 TN-2.6	4.7x2.95, 6.6x2.7	2.6×0.22×0.041	1000 Ω	150±5%	<0.40%	<0.30%	<80	5	6000

Note:

*TCR= temperature coefficient of resistance@32℃

**TCGF temperature coefficient of resistance@32℃



※**Ordering code:** Gauge pattern-backing/ no backing – gauge resistance –lead wire