

Applications

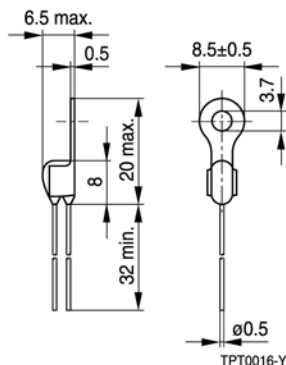
- Limit temperature sensor

Features

- Sensor with epoxy resin coating
- Tinned leads
- Metal tag for easy mounting
- Characteristics for sensing temperatures
 $T_{\text{sense}} = 90$ to 130 °C conform with DIN 44081
- Metal tag permits good thermal coupling and thus short response time
- RoHS-compatible

Delivery mode

- Cardboard strips in cardboard box

Dimensional drawing


Dimensions in mm

General technical data

Max. operating voltage	($T_A = 0 \dots 40$ °C)	V_{max}	30	V DC
Max. measuring voltage	($T_A = -25$ °C ... $T_{\text{sense}} + 23$ K)	$V_{\text{meas,max}}$	7.5	V DC
Rated resistance	($V_{\text{PTC}} \leq 2.5$ V)	R_R	≤ 100	Ω
Insulating test voltage	(between tag and leads)	V_{ins}	500	V AC
Thermal threshold time		t_a	< 20	s
Operating temperature range	($V \leq V_{\text{meas,max}}$)	T_{op}	$-40 / T_{\text{sense}} + 23$	°C
Operating temperature range	($V = V_{\text{max}}$)	T_{op}	$0 / +40$	°C

Electrical specifications and ordering codes

T_{sense} °C	R ($T_{\text{sense}} - 5$ K) ($V_{\text{PTC}} \leq 2.5$ V) Ω	R ($T_{\text{sense}} + 5$ K) ($V_{\text{PTC}} \leq 2.5$ V) Ω	R ($T_{\text{sense}} + 15$ K) ($V_{\text{PTC}} \leq 7.5$ V) Ω	R ($T_{\text{sense}} + 23$ K) ($V_{\text{PTC}} \leq 2.5$ V) Ω	Stamp code	Ordering code
60	≤ 570	≥ 570		≥ 10 k	331	B59901D0060A040
70	≤ 570	≥ 570	-	≥ 10 k	341	B59901D0070A040
80	≤ 570	≥ 570	-	≥ 10 k	351	B59901D0080A040
90	≤ 550	≥ 1330	≥ 4 k	-	361	B59901D0090A040
100	≤ 550	≥ 1330	≥ 4 k	-	371	B59901D0100A040
110	≤ 550	≥ 1330	≥ 4 k	-	381	B59901D0110A040
120	≤ 550	≥ 1330	≥ 4 k	-	391	B59901D0120A040
130	≤ 550	≥ 1330	≥ 4 k	-	401	B59901D0130A040

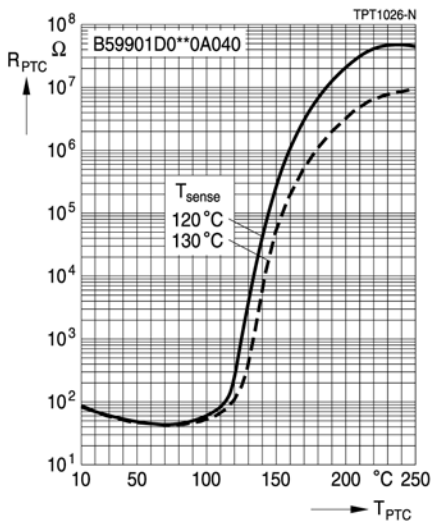
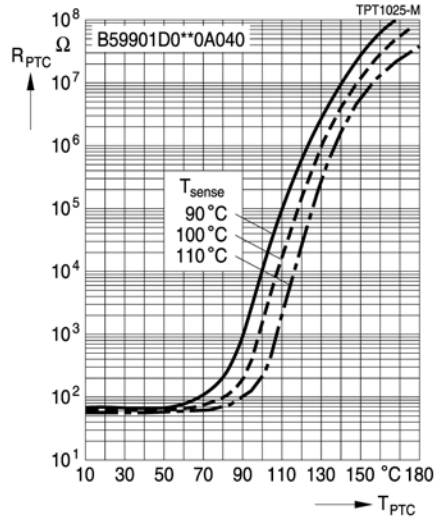
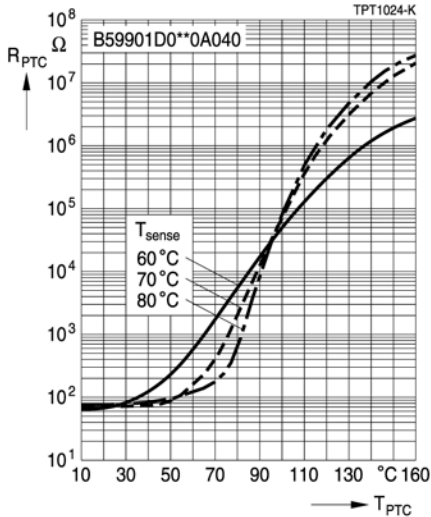
Reliability data

Test	Standard	Test conditions	$ \Delta R_{25}/R_{25} $
Electrical endurance, constant	IEC 60738-1	Storage at $V_{\max} / T_{\text{op,max}} (V_{\max})$ Test duration: 1000 h	< 25%
Damp heat	IEC 60738-1	Temperature of air: 40 °C Relative humidity of air: 93% Duration: 56 days Test according to IEC 60068-2-78	< 10%
Rapid change of temperature	IEC 60738-1	$T_1 = T_{\text{op,min}} (0 \text{ V}), T_2 = T_{\text{op,max}} (0 \text{ V})$ Number of cycles: 5 Test duration: 30 min Test according to IEC 60068-2-14, Test Na	< 25%
Vibration	IEC 60738-1	Frequency range: 10 to 55 Hz Displacement amplitude: 0.75 mm Test duration: 3 × 2 h Test according to IEC 60068-2-6, Test Fc	< 5%

Characteristics (typical)

PTC resistance R_{PTC} versus

PTC temperature T_{PTC} (measured at low signal voltage)



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