


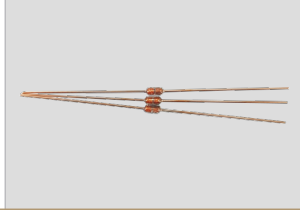


# TEMPERATURE SENSOR




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## SENSOR ELEMENT

	 Thermistor Chips	 Radial Type Thermistors	 Chip in Glass Type Thermistors	 Axial Type Thermistors
<b>Package</b>	Leadless Chips	Encapsulated Chip with Lead Wire	Encapsulated Chip with Lead Wire	Encapsulated Chip with Lead Wire
<b>Type</b>	Bare Chip	Epoxy Molding	Glass Sealing	Glass Sealing
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Wire Bonding Compatible</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent endurance against thermal shock</li> <li>• Excellent stability at high temperature</li> <li>• High precision and small head size</li> <li>• Epoxy coating for hermetic seal from environment</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent stability at high temperature</li> <li>• Excellent stability at high humidity condition (tight glass sealing)</li> <li>• Cost effective design</li> </ul>	<ul style="list-style-type: none"> <li>• High temperature capability</li> <li>• High precision and high reliability</li> </ul>
<b>Accuracy</b>	±1 to ±5%	±1 to ±5%	±1 to ±5%	±1 to ±5%
<b>Operate Temp.</b>	-50 to +120°C	-50 to +120°C	-50 to +250°C	-50 to +250°C
<b>Dimensions (mm)</b>	0.3 to 1.5 Square	3.0 x 4.3[Head]	Min. 1.0x2.0 / Max. 2.0x3.0[Head]	1.8 x 3.7[Body]
<b>Typical Application</b>	<ul style="list-style-type: none"> <li>• Temperature sensor Element for OEM</li> <li>• Automotive</li> <li>• Medical</li> </ul>	<ul style="list-style-type: none"> <li>• Temperature sensor Element for OEM</li> <li>• Automotive</li> <li>• Medical</li> </ul>	<ul style="list-style-type: none"> <li>• Temperature sensor Element for OEM</li> <li>• Automotive</li> <li>• Medical</li> </ul>	<ul style="list-style-type: none"> <li>• Temperature sensor Element for OEM</li> <li>• Automotive</li> <li>• Medical</li> </ul>

## SENSOR ASSEMBLIES

	Rug Type	 Metal Type	 PVC, ABS Type	 P(Platinum) RTD Sensor
<b>Package</b>	Brass, copper or stainless steel closed end tube	Brass, copper or stainless steel closed end tube	PVC, ABS closed end tube	Stainless steel housing
<b>Element</b>	<ul style="list-style-type: none"> <li>• Radial Type NTC</li> <li>• Disk Type NTC</li> </ul>	<ul style="list-style-type: none"> <li>• Radial Type NTC</li> <li>• Chip in Glass Type NTC</li> <li>• Axial Type NTC</li> </ul>	<ul style="list-style-type: none"> <li>• Radial Type NTC</li> <li>• Chip in Glass Type NTC</li> <li>• Axial Type NTC</li> </ul>	<ul style="list-style-type: none"> <li>• PT100, PT500, PT1000</li> </ul>
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Ring lug terminals enable easy and secure surface mounting</li> <li>• Completely customizable offer a variety of housings and lead wire gauges</li> <li>• Fast response times</li> </ul>	<ul style="list-style-type: none"> <li>• Moisture resistance</li> <li>• For use where space is limited</li> <li>• Simple installation</li> <li>• Corrosion resistant</li> <li>• Available with mounting tabs or clips</li> </ul>	<ul style="list-style-type: none"> <li>• Fast response times</li> <li>• Moisture resistance</li> <li>• Good for sensing low temperature</li> </ul>	<ul style="list-style-type: none"> <li>• High Temperature</li> <li>• Easy integration/installation</li> <li>• Higher dielectric strength according to type</li> </ul>
<b>Accuracy</b>	±1 to ±5%	±1 to ±5%	±1 to ±5%	Class 1/3B, A, B, 2B according to IEC60751
<b>Operate Temp. (Sensing Part)</b>	-50 to +120°C	-50 to +250°C	-50 to +120°C	-50 to +300°C
<b>Dimensions (mm)</b>	Customized Design	Customized Design	Customized Design	Customized Design
<b>Typical Application</b>	<ul style="list-style-type: none"> <li>• Medical and Healthcare Device</li> <li>• Automotive</li> <li>• Home Appliance</li> <li>• Customer Electronics</li> </ul>	<ul style="list-style-type: none"> <li>• Medical and Healthcare Device</li> <li>• Automotive</li> <li>• Home Appliance</li> <li>• Customer Electronics</li> </ul>	<ul style="list-style-type: none"> <li>• Medical and Healthcare Device</li> <li>• Automotive</li> <li>• Home Appliance</li> <li>• Customer Electronics</li> </ul>	<ul style="list-style-type: none"> <li>• Drying oven, domestic oven</li> <li>• Chiller, Industrial Chiller</li> </ul>