

NTC Hydroguard™

Moisture-Resistant Thermistors

High moisture environments are a primary cause of sensor failure. Now, QTI™ solves the problem with a highly-reliable sensor produced with innovative moisture-resistant technology.

Quality Thermistor's NTC Hydroguard™ thermistor probes are the solution for temperature sensing in high-moisture environments. Hydroguard probes are unequaled in quality and performance and can be used in a wide variety of applications between the temperatures of -40°C to +100°C. Although the values listed are standard, our Hydroguard thermistors and probes can be manufactured using a number of different resistance and curve combinations to fit your specific application.



RESISTANCE @ 25°C	PART NUMBER	R-T CURVE*
2,252	QTHGXX-7	Z
5,000	-11	Z
10,000	-14	Z
10,000	-82	S
30,000	-89	M

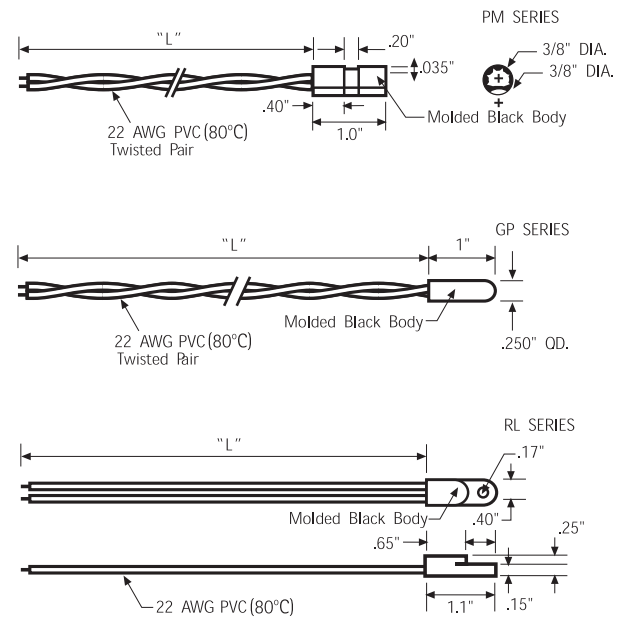
* See pages 25-27 for R-T detail.

Technology Comparison Chart

	Moisture Resistance (100 % RH)	Corrosion Resistance (Saltwater)	Durability	Thermal Cycling Efficiency	Precision Interchangeable Available?
Hydroguard™	Excellent	Excellent	Excellent	Excellent	Yes
Vinyl Cap	Poor	Good	Fair	Fair	Yes
Copper Sheath	Poor	Poor	Fair	Fair	Yes
Multi Layer Coating Systems	Fair	Good	Fair	Poor	Yes
Molded Glass Diode Assemblies	Fair	Good	Poor	Poor	No

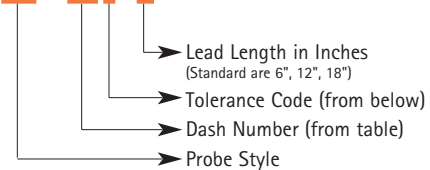
Engineering Information

Operating Temperature Range: -40C to +100C
 Dissipation Constant: 2mw/°C typ
 Thermal Time Constant: depends on mounting
 Power Rating: 1/8 watt max



Ordering Information

QTHGRL-14J-6



Tolerance:

Omit = 10% D3 = +/- .1°C (0°C-70°C)
 J = 5% C3 = +/- .2°C (0°C-70°C)
 G = 2% B3 = +/- .5°C (0°C-70°C)
 F = 1% A3 = +/- 1°C (0°C-70°C)