

QTS16 PTC RADIAL LEADED THERMISTORS

The QTS16 Series features precision PTC thermistors encapsulated in epoxy beads, with a radial lead configuration.



ENGINEERING INFORMATION

- Resistance values from 22 to 5.6k ohms
- Positive Temperature Coefficient: 0.7%/°C
- Operating temp range: -55°C to 125°C
- Storage temp range: -65°C to 150°C
- Typical Dissipation Constant: 1.25mW/°C in still air
- Thermal Time Constant: 10 seconds max in still air
- Power rating: 0.125 W at 25°C max, derate to 0 W at 125°C



Table 1: Derating curve for high ambient temps

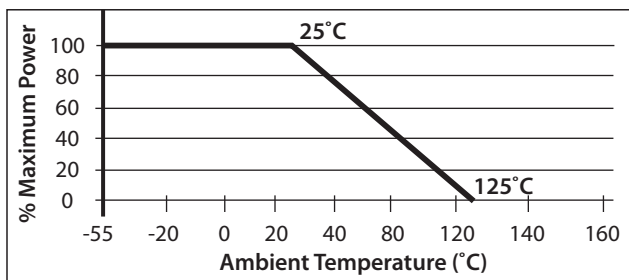


Table 2: Factors for determining resistance at various temps

Temp (°C)	22-27 Ω	33-68 Ω	82-330 Ω	390-2.7k Ω	3.3k-5.62k Ω
-55°C	0.552	0.519	0.493	0.481	0.493
-15°C	0.739	0.728	0.716	0.709	0.717
0°C	0.830	0.822	0.813	0.810	0.816
25°C	1.000	1.000	1.000	1.000	1.000
50°C	1.190	1.201	1.208	1.211	1.205
75°C	1.408	1.441	1.441	1.446	1.430
100°C	1.651	1.669	1.706	1.709	1.660
125°C	1.908	1.940	1.993	1.983	1.862

Table 3: Resistance tolerance at temps other than 25°C

Temp (°C)	F % (+/-)	G % (+/-)	J % (+/-)	K % (+/-)
-55°C	15	17	20	25
-15°C	9	10	13	18
0°C	3	4	7	12
25°C	1	2	5	10
50°C	3	4	7	12
75°C	5	6	9	14
100°C	7	9	12	17
125°C	10	12	15	20

QTI can customize this part for you. Contact us for available options.

2108 Century Way Boise, Idaho 83709 USA
T: (208) 377-3373, 800-554-4784
F: (208) 376-4754
qtisales@thermistor.com
www.thermistor.com

MADE IN THE
USA

Qti
Sensing Solutions