

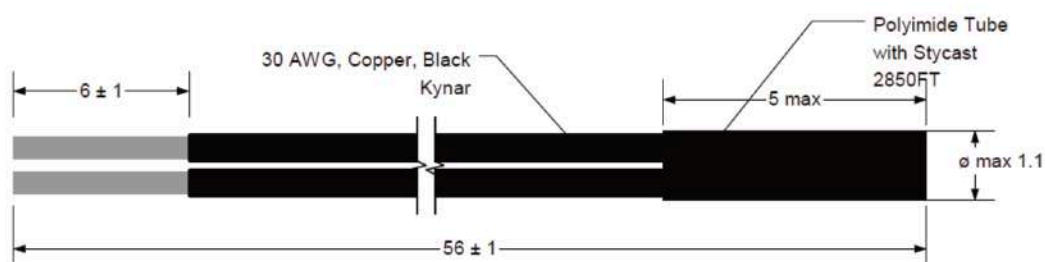


- **Fast time response**
- **Wide range of tolerances**
- **Small tip diameter**
- **Various lead lengths available**
- **RoHS compliant**

The ENTC-MTP-65-10k3977-02 is specifically designed for sensing small mid-range changes in temperature. Its reduced size allows localized temperature sensing and the epoxy filled polyimide tube makes the ENTC-MTP-65-10k3977-02 a perfect solution for applications where improved moisture protection is required. Due to its high sensitivity and high resistance it is ideal for small medical probes, micro-flow sensing and liquid or gas temperature control and monitoring.

Specifications	
Element:	NTC Thermistor
Material	Thermistor soldered to 30 AWG Solid Silver Plated Copper Wire with PVDF Insulation Housing - polyimide tubing with thermally conductive black epoxy
No-load resistance at +25°C	10 kΩ
Resistance Tolerance from 0°C to 70°C	± 0.2°C
Beta Value 25/85 constant	3977K ± 1%
Operating temperature range	-40° C to +125° C
Response Time in well stirred liquid bath	~ 0.5s

Dimensions



Resistance vs. temperature table for 10k3977-02

R(25) = 10000 Ohms B(25/85) = 3977K ± 1% Tolerance ±0.2° C from 0° C to 70° C

TEMP (°C)	RESIS (KΩ)
-40	335668
-35	242193
-30	176682
-25	130242
-20	96973
-15	72894
-10	55297
-5	42314
0	32651
5	25395
10	19903
15	15714
20	12494
25	10000
30	8056
35	6530,1
40	5324,9
55	2985,1
60	2487,1
65	2082,3
70	1751,6
75	1480,1
80	1256,2
85	1070,6
90	916,1
95	786,98
100	678,63
105	587,3
110	510,06
115	444,48
120	388,59
125	340,82

Ordering information

Order code: ENTC-MTP-65-10k3977-02