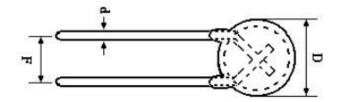


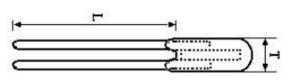
# Datasheet 25Ω Protection NTC Thermistor

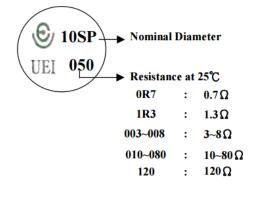
**RS Stock 516-7760** 



## **Dimensions: (mm)**







- D : Diameter with coating
- F : Forming Pitch
- T : Thickness of thermistor with coating
- L : Length of leads
- d : Diameter of leads

1 <b>0 Ф</b>	D	F	Т	L	d
max.	11.5	6.0	5.0	-	0.82
X	-	5.0	-	-	0.80
min.	-	4.0	-	25.0	0.78

UNIT : mm

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## **Specification**

Style: Disc Type Thermistor (Negative Temperature Coefficient)

- Material coating: Silicone
- Colour Coating: Black
- Material of Lead: Cu, Fe,Sn Material

### Maximum Ratings (Ambient Ta=25°C)

	Item	Conditions	Max. Rated Value	
a	Rated Temperature	in still air	-40 ~ +170	ິ
b	Max. Permissible Working	Ta : 25 °C	2	Amp.
	Current			

#### **Electrical Characteristics**

	Item	Conditions	Specification
a	Zero Power Resistance	Ta : $25 \pm 0.2$ °C ,I $\leq 0.5$ mA	50 $\Omega$ ± 20 %
b	Beta Value	8876*Log(R25/R50)	<b>3211</b> ± 7 %
c	Thermal Dissipation Constant	Ta : 25 °C	10 mW/°C (Approx.)
d	Thermal Time Constant	Ta : 25 °C	58 sec. (Approx.)
e	Insulation	1000 Vdc	> 500 MΩ
f	V-I Test	Steady State Current I: 0.5 Amps	Resistance Under Load 4701 mΩ (Approx.)
		I: 1 Amps I: 2 Amps	1901 mΩ (Approx.)   723 mΩ (Approx.)
g	UL APPROVAL MAX. load capacitance(uf), <b>〈</b> 240Vac/420uf <b>〉</b> , compares of the twice R-T value of Before test & After test, the variation of temperature must be within ±20°C.		
h	Permissible Electrolytic Capacitor suggestion to use in the safety range is under (340Vdc/100uf)		
i	UL Test Temperature (min :	0 °C)	
j	VDE Test Temperature (None)		
k	Maximum power rating(Pmax.)		

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### **Mechanical Characteristics**

	Item	Conditions	Specification
a	Terminal Pull	Load : 2.5 kg, time : 5 sec.	No Break Out
b	Terminal Bend	Load : 1 kg Bend : 0° → 90° → 0° * 2 Cycles	No Break Out
c	Solderability	230±5℃, 3± 0.5 sec.	at Least 95% of the lead wire circumference is covered with solder.
d	Solder Heat Resistance	260± 5℃, 3± 0.5 sec.	$\triangle R/R : \leq \pm 10\%$

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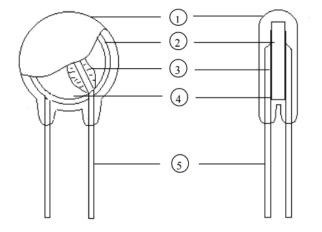
### **Reliability Test**

	Item	Conditions	Specification Variable Rate of Resistance
a	Thermal Shock	-40°C *30' → +25°C *30' →+150°C *30' →+ 25°C *30' *8 Cycles	Max.+15%
b	Humidity	45℃, 95% R.H.*1000 Hours 300mA on 2 Min. off 6 Min. * 5000 Times	Max.+15%
c	Continuous Load Life	25°C , 2 Amps *1000 Hours	Max.+25%
d	Temperature Storage	60°C *300 mA*1000 Hours	Max.+25%

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## Material

No.	Component	Material
1	Coating	Silicone
2	NTC Thermistor	Mn,Ni,Cu,Fe,Oxide
3	Solder	Sn-Ag
4	Electrode	Ag
5	Lead Wire	(Cu,Fe,Sn) Material

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