

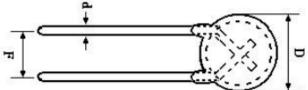
# Professionally approved products. Datasheet

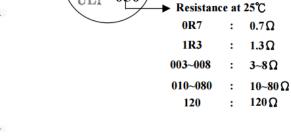
## **25Ω Protection NTC Thermistor**

RS Stock 516-7782



## **Dimensions: (mm)**



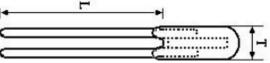


050

🕑 10SP

UEI

**Nominal Diameter** 



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

10 <b>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					: mm

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RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.

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

#### **Electrical Characteristics**

	Item	Conditions			Specification			tion
a	Zero Power Resistance	Ta : $25 \pm 0.2$ °C ,I $\leq 0.5$ mA		50	Ω±	20	%	
b	Beta Value	8876*Log(R25/R50)		3211	±	7	%	
c	Thermal Dissipation Constant	Ta : 25 ℃		10	mW/°(	C (Appr	ox.)	
d	Thermal Time Constant	Ta : 25 °C			58	sec.	(Appr	rox.)
e	$e \text{ Insulation} \qquad 1000 \text{ Vdc} \qquad > 500 \text{ M}\Omega$				Ω			
f	V-I Test	S	teady Sta	te Current	Resistance Under Load			
		I:	0.5	Amps	4701	mΩ	(Appr	ox.)
		Ι:	1	Amps	1901	mΩ	(Appr	ox.)
		I :	2	Amps	723	mΩ	(Appr	ox.)
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.) 100% $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$							

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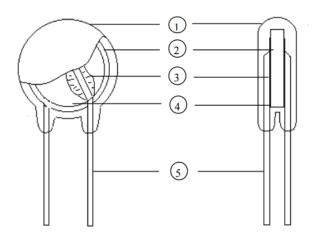
### **Mechanical Characteristics**

	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.	$\triangle R/R : \leq \pm 10\%$

### **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°C, 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℃*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		