



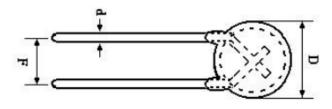
Datasheet

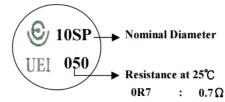
25Ω Protection NTC Thermistor

RS Stock 516-7782



Dimensions: (mm)

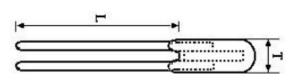




 $\begin{array}{cccc} 1R3 & : & 1.3\,\Omega \\ 003{\sim}008 & : & 3{\sim}8\,\Omega \\ 010{\sim}080 & : & 10{\sim}80\,\Omega \end{array}$

120Ω

120



D: Diameter with coating

F: Forming Pitch

T: Thickness of thermistor with coating

L: Length of leads
d: Diameter of leads

10 Φ	D	F	T	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



ENGLISH

Specification

Style: Disc Type Thermistor (Negative Temperature Coefficient)

Material coating: SiliconeColour Coating: Black

• Material of Lead: Cu, Fe,Sn Material

Maximum Ratings (Ambient Ta=25℃)

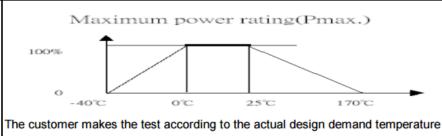
	Item	Conditions	Max. Rate	ed Value
a	Rated Temperature	in still air	-40 ~ +170	ث ت
b	Max. Permissible Working	Ta: 25 ℃	2	Amp.
	Current			

Electrical Characteristics

	Item	Conditions	Specification	
a	Zero Power Resistance	Ta: 25 ±0.2 °C ,I ≤ 0.5mA	50 Ω ± 20 %	
b	Beta Value	8876*Log(R25/R50)	3211 ± 7 %	
c	Thermal Dissipation Constant	Ta: 25 ℃	10 mW/℃ (Approx.)	
d	Thermal Time Constant	Ta: 25 ℃	58 sec. (Approx.)	
e	Insulation	1000 Vdc	> 500 MΩ	
f	V-I Test	Steady State Current	Resistance Under Load	
		I: 0.5 Amps	4701 mΩ (Approx.)	
		I: 1 Amps	1901 mΩ (Approx.)	
		I: 2 Amps	723 mΩ (Approx.)	

- g UL APPROVAL MAX. load capacitance(uf), 〈 240Vac/420uf 〉, 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 ℃)
- j VDE Test Temperature (None)

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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.





Mechanical Characteristics

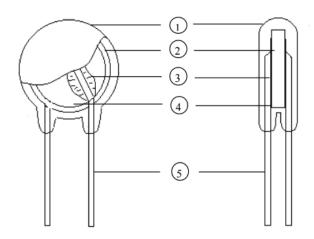
	Item	Conditions	Specification
a	Terminal Pull	Load: 2.5 kg, time: 5 sec.	No Break Out
b	Terminal Bend	Load: 1 kg Bend: 0° → 90° → 0° * 2 Cycles	No Break Out
c	Solderability	230±5℃ , 3± 0.5 sec.	at Least 95% of the lead wire circumference is covered with solder.
d	Solder Heat Resistance	260± 5°C , 3± 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℃ , 2 Amps *1000 Hours	Max.+25%
d	Temperature Storage	60°C *300 mA*1000 Hours	Max.+25%







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