



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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NTC probes AS Part number 89750180



- Direct connection with no converter on analog input
- Easy-to-use and low-cost temperature control solution
- Fields of application : HVAC, compressors, geothermal systems, swimming pools, fountains
- Analog input configured as a potentiometer via the NTC functions in the M3 Soft (minimum AC 5)

Part numbers

Type	Description	Ohmic value	Measurement range
89750180 AS	NTC1 probe (batch of 10) for Millenium 3 (24 V DC, $\pm 10\%$)	10 k Ω @ 25 °C	-25 \rightarrow +85 °C

Specifications

General characteristics

Environmental characteristics

Operating temperature	-25 \rightarrow +85 °C	-25 \rightarrow +85 °C	-25 \rightarrow +120 °C	-20 \rightarrow +105 °C	-40 \rightarrow +200 °C
Storage temperature	-30 \rightarrow +100 °C	-30 \rightarrow +100 °C	-40 \rightarrow +180 °C	-40 \rightarrow +105 °C	-40 \rightarrow +200 °C
Accuracy	-25 \rightarrow +40 °C : $\leq \pm 0,8$ °C (repeatability $\leq \pm 0,5$ °C) +40 \rightarrow +70 °C : $\leq \pm 2$ °C (repeatability $\leq \pm 1$ °C) +70 \rightarrow +85 °C : $\leq \pm 3$ °C (repeatability $\leq \pm 2$ °C)	-25 \rightarrow +40 °C : $\leq \pm 0,8$ °C (repeatability $\leq \pm 0,5$ °C) +40 \rightarrow +50 °C : $\pm 1,2$ °C (repeatability $\leq \pm 1$ °C) +50 \rightarrow +60 °C : $\pm 1,4$ °C (repeatability $\leq \pm 1,4$ °C) +60 \rightarrow +70 °C : ± 2 °C (repeatability $\leq \pm 2$ °C) +70 °C \rightarrow +85 : ± 3 °C (repeatability $\leq \pm 2$ °C)	-35 \rightarrow +40 °C : $\leq \pm 0,8$ °C (repeatability $\leq \pm 0,5$ °C) +40 \rightarrow +70 °C : $\leq \pm 2$ °C (repeatability $\leq \pm 1$ °C) +70 \rightarrow +120 °C : $\leq \pm 3$ °C (repeatability $\leq \pm 2$ °C)	-20 \rightarrow +40 °C : $\leq \pm 0,8$ °C (repeatability $\leq \pm 0,5$ °C) +40 \rightarrow +70 °C : $\leq \pm 2$ °C (repeatability $\leq \pm 1$ °C) +70 \rightarrow +105 °C : $\leq \pm 3$ °C (repeatability $\leq \pm 2$ °C)	0 \rightarrow +40 °C : $\leq \pm 3$ °C (repeatability $\leq \pm 1$ °C) +40 °C \rightarrow +140 °C : $\leq \pm 2$ °C (repeatability $\leq \pm 1$ °C) +140 °C \rightarrow +180 °C : $\leq \pm 3$ °C (repeatability $\leq \pm 1$ °C)

Mechanical characteristics

Material	PVC	AS	Inox	POM (polyoxymethylene)	Silicone
Cable	PVC	2 wires	PVC (105 °C max.)	PVC (105 °C max.)	Silicone (200 °C max.)
Cable length	3000 mm	600 mm	3000 mm	3000 mm	800 mm
Protection rating	IP67	-	IP64	IP67	IP64
Isolation class	-	-	1	2	1
Dielectric strength according to IEC 335	-	1000 V AC / 1 mn	1250 V AC / 1 mn	-	2000 V AC / 1 mn
Dimensions	Threading 1/2" Length 68 mm	5 x 6 mm Length 15 mm	$\varnothing 4,8$ Length 30 mm	$\varnothing 6$ mm Length 30 mm	$\varnothing 5$ Length 30 mm

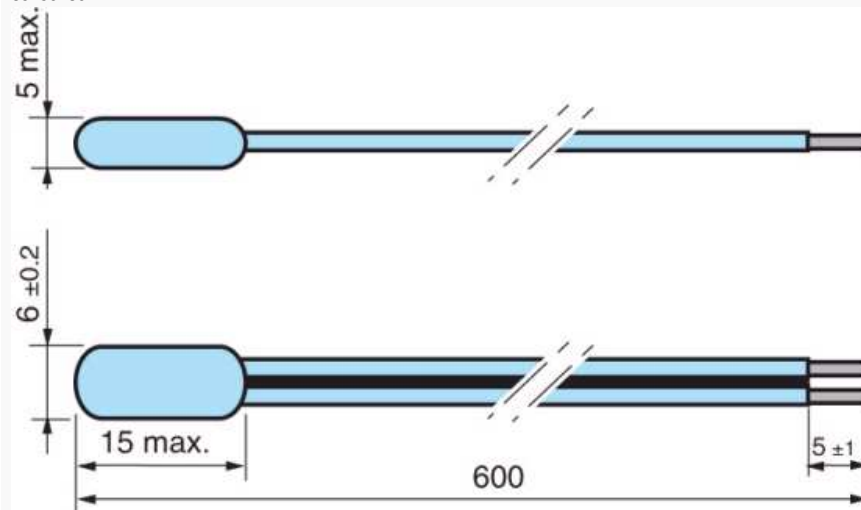
Comments

Accessories

Accessories	Operating temperature	Operating pressure	Code
Copper protective sleeve	-20 \rightarrow +100 °C	10 bar	89750146
316 stainless steel protective sleeve	-20 \rightarrow +400 °C	16 bar	89750147


Dimensions (mm)

89750180



Connections

CA 89750183


 24V +/- 10%
