

Dongguan Ampfort Electronics Co., Ltd. 东莞市安伏特电子有限公司

No.: AFT-S- 1604125G

Version: A/3

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Specification For Approval

Customer PN: MFG PN:					
		NSAD0303KC-331X			
	MFG		(Customer Confirmati	on
Make	Check	Approval	Test	Check	Approva
Маке					

Version	Revise content	Forwarder	Date
A/0	Just made	Cheng	2016-04-15
A/1	Wire insulation layer change	Cheng	2016-04-28
A/2	Change the head shape and wire length tolerance	Cheng	2016-04-28
A/3	Correct head size, add wire requirements	Cheng	2016-05-19



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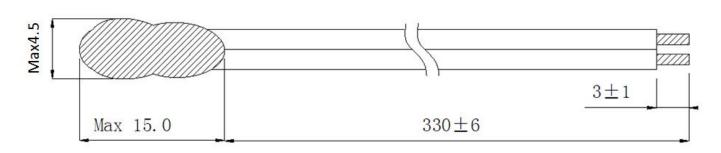
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(Unit: mm)

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1. Overall Dimension



2, Material explanation

NO	Material Name	Item/PN
2-1.	Element	R25=30K $\Omega \pm 10\%$ B25/50=3950 $\pm 1\%$
2-2.	Coating	Epoxy Resin (Black)
2-3.		UL4411# 24AWG×2C 7*0.20mm 125°C 300V (Yellow)
۵-3.	Lead Wire	Diameter: $1.4 \pm 0.05 * 2.9 \pm 0.1 \text{mm}$ Meet SAEJ-1128

3. Part Number:

$$\frac{\text{NSA}}{1}$$
 - $\frac{\times}{2}$ $\frac{\times}{3}$ $\frac{\times \times \times}{4}$ $\frac{\times}{5}$ $\frac{\times}{6}$ $\frac{\times \times \times \times}{7}$ $\frac{\times}{8}$

- (1) NTC Thermistor Mark;
- (2) Head shape sign (B:Housing Type, D:Dip-Coating, M:Molding);
- (3) Series Type (0:Epoxy coating structure, 1:Epoxy coating structure(high temp));
- (4) Nominal resistor is value at 25degree, unit is Ohm, previous two digital representation significant digits of resistance, third digital representation the number of zero;
- (5) Resistance tolerance (%);
- (6) B Value constant sign In general, it is value of 25/50Deg, other conditions will remark and explain;
- (7) Length Sign, unit is mm;
- (8) Special code;



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4. Electrical Performance:

NO	Item	Sign	Test Conditions	Min.	Normal value	Max.	Unit
4-1.	Resistance at 25 °C	R25	Ta=25±0.05°C $P_T \le 0.1$ mw	27.0	30.0	33.0	kΩ
4-2.	B Value	B25/50	$B=LN\frac{R_{TI}}{R_{T2}}/(\frac{1}{T1}-\frac{1}{T2})$	3910.5	3950	3989.5	k
4-3.	Dissipation factor	σ	Ta=25±0.5℃ In still air	≥2		mw/°C	
4-4.	Time constant	τ	Ta=25±0.5℃ In still air	≦7		sec	
4-5.	Operating temp.range	/	/	-20	/	+125	$^{\circ}$
4-6	Insulation resistance	/	100V DC	100	/	/	МΩ
4-7.	Withstand voltage test	/	200V AC	5	/	/	Sec

5. Reliability Test

NO	Item	Technical requirements	Test conditions and method			
5-1.	High temp. Test		100±5℃, power on 500±24 hrs, DC0.2mA			
5-2.	Low temp. tes	ΔR/R25≤±3% ΔB/B≤±3% No change with withstand voltage. Insalution performance.	-20±5°C, power on 500±24 hrs, DC0.2mA			
5-3.	Endure moisture test		Store in environment 55±2°C,90%-95%RH for 500±24 hrs			
5-4.	Temp. cycle test		-20°C×30min→Room temp.×10min→ in 100°C water×30min→Room temp.×10min 10 cycles			
5-5	Load electrify test		Power on DC1mA, 500hrs in room temp. and humid.			
5-6	Drop test	Appearance without damage.	Free fall into concrete floor from height 1M , 10 cycle.			
5-7	Vibration test		Frequency range: 10~55HZ Total amplitude 1.52mm 1 cycle 1 min , direction and time X , Y , Z axs 2Hr each .			
5-8	Bending test		Bend 180°binding site wire and epoxy resin. Back and forth 10 times			
5-9	Tensile tests		Put 2 kg of force lasts 1 min			

6. Storage Method

- **6.1** In the process of storage and transportation, per stack height is not more than 4 CTN products.
- **6.2** Available with all transport method, but avoid the rain, snow of direct or indirect leaching and mechanical damage.
- **6.3** Products should be stored in the temperature of environment $10 \,^{\circ}\text{C}$, relative humidity is not more than 80%, environment should not have acid, alkali and corrosion gas or radioactive source.