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SPECIFICATION FOR APPROVAL

CUSTOMER	Blume-Newmatik-AAA-LUX BV
CERTIFIED MODEL/TYPE	
PART NO.	PSB560NA3D408EZY (RoHS)
APPLICATION	
CUSTOMER P/N	
ISSUE DATE	Aug.29.2023
REV. NO.	
REV. DATE	

FOR CUSTOMER APPROVAL	CHECKED BY
	Haili Gong
	APPROVED BY
	Huaifang Zhang

REVISED RECORD SHEET

REV. NO	REV. DATE	REVISED CONTENT

INDEX

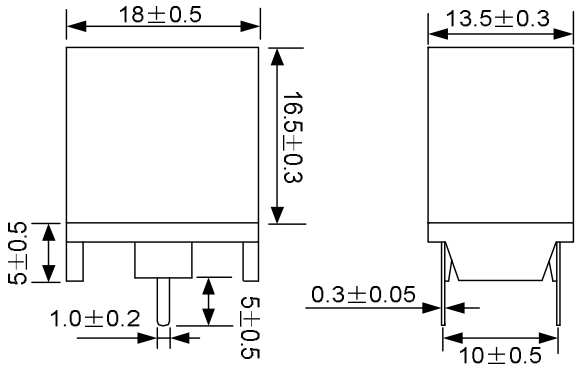
Part number code

Example :

PS	B	560	N	A3	D4	08	EZ	Y
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)

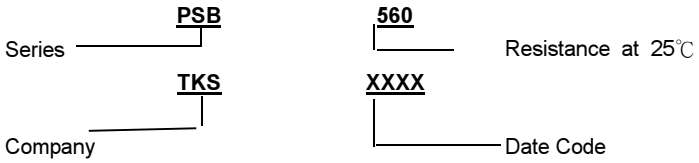
No.	Item	Digit	Specification
(1)	Product Type	PS	Thinking PTC thermistor for motor starting
(2)	Type Series	B	Case Type
(3)	Resistance(R_{25})	560	$56\times10^{0}=56\Omega$
(4)	Tolerance of R_{25}	N	± 30 %
(5)	Curie Temperature	A3	Refer to'Optional Suffix'
(6)	Maximum Voltage	D4	440V
(7)	Structure Code	08	Refer to'Optional Suffix'
(8)	Internal Control Code	EZ	RoHS compliance
(9)	Optional Suffix	Y	Tc:135℃typ. VLink,max:620Vdc

Structure and Dimensions



(Unit:mm)

Marking :



Electrical Characteristics

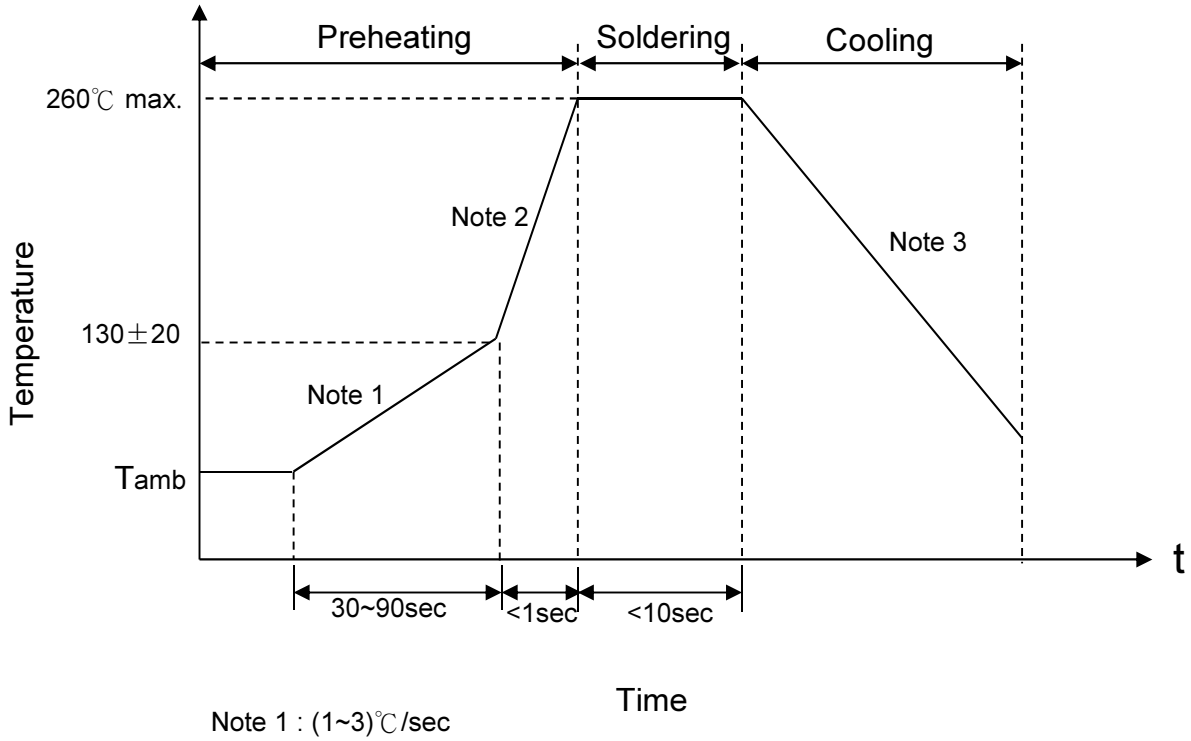
Part no.	Curie Temperature	Zero-power Resistance at 25+/-2℃	Max Vlink	Max. Voltage	Thermal Capacity	Max. Non-operating Energy at 60℃	Operating Temperature Range	Operating Temperature Range
	Tc (℃)	R_{25} (Ω)	V_{Lmax} Vdc	V_{max} (Vac)	Cth (J/K)	ENon60 (J)	V=Vmax (℃)	V=0 (℃)
PSB560NA3D408EZY	135typ.	56±30%	620	440	2.3 typ.	110 typ.	-20~+85	-40~+125

Reliability

<table>
<tr><th>Item</th><th>Standard</th><th>Test conditions / Methods</th><th>Specifications</th></tr>
<tr><td>Robustness of Terminations</td><td>IEC 60738-1</td><td>Gradually apply 40±0.5N and keep the unit fixed for 10±1 sec.</td><td>$|\triangle R_{25}/R_{25}| \leqq 20\%$
No visible damage</td></tr>
<tr><td>Solderability</td><td>IEC 60738-1</td><td>245±3 ℃ , 2±0.5 sec</td><td>At least 95% of terminal electrode is covered by new solder</td></tr>
<tr><td>Resistance to Soldering Heat</td><td>IEC60738-1</td><td>260±3 ℃ , 10±1 sec</td><td>$|\triangle R_{25}/R_{25}| \leqq 20\%$
No visible damage</td></tr>
<tr><td>Vibration</td><td>IEC60738-1</td><td>Frequency range:10~55Hz
Amplitude:0.75mm or 98m/s2
Direction:3 mutually perpendicular directions
Duration :6hrs(3x2 hrs)</td><td>$|\triangle R_{25}/R_{25}| \leqq 20\%$
No visible damage</td></tr>
<tr><td>Shock</td><td>IEC60738-1</td><td>Wave: half-sine
⊿V:1.0m/s
Acceleration:50 m/s2
Pulse time:30ms</td><td>$|\triangle R_{25}/R_{25}| \leqq 20\%$
No visible damage</td></tr>
<tr><td>Rapid Change of Temperature</td><td>IEC60738-1</td><td>The thermal shock conditions shown below shall be repeated 5 cycles
<table>
<tr><th>Step</th><th>Temperature(℃)</th><th>Period(minutes)</th></tr>
<tr><td>1</td><td>-40 ± 5</td><td>30 ± 3</td></tr>
<tr><td>2</td><td>Room temperature</td><td>5 ± 3</td></tr>
<tr><td>3</td><td>85 ± 5</td><td>30 ± 3</td></tr>
<tr><td>4</td><td>Room temperature</td><td>5 ± 3</td></tr>
</table></td><td>$|\triangle R_{25}/R_{25}| \leqq 20\%$
No visible damage</td></tr>
<tr><td>Climatic Sequence</td><td>IEC60738-1</td><td>Dry heat:125 ℃ for 16hrs
Damp heat first cycle: 40℃,95%R.H ,cycle time:24hrs
Cold: -25℃for 2hrs
Damp heat (cyclic), remaining cycles:5 cycles
Test according to IEC60068-2-30</td><td>$|\triangle R_{25}/R_{25}| \leqq 20\%$
No visible damage</td></tr>
<tr><td>Damp Heat, Steady State</td><td>IEC60738-1</td><td>40±2℃,90~95%RH, 1000±2hrs</td><td>$|\triangle R_{25}/R_{25}| \leqq 20\%$
No visible damage</td></tr>
<tr><td>Endurance at Maximum Operating Temperature and Maximum Voltage</td><td>IEC60738-1</td><td>85±5℃, Vmax, 1000±2hrs</td><td>$|\triangle R_{25}/R_{25}| \leqq 20\%$
No visible damage</td></tr>
<tr><td>Endurance for Charging of Capacitor</td><td>Specification Standard</td><td>Operating cycles at Vmax >100,000 cycles
(charging of capacitor)</td><td>$|\triangle R_{25}/R_{25}| \leqq 20\%$
No visible damage</td></tr>
</table>

Soldering Recommendation

Wave Soldering Profile



Note 1 : (1~3)℃/sec
Note 2 : Approx. 200℃/sec
Note 3 : 5℃/sec Max

Recommended Reworking Conditions with Soldering Iron

Item	Conditions
Temperature of Soldering Iron-tip	360℃ (max.)
Soldering Time	3 sec (max.)
Distance from Thermistor	Can't touch body bottom

RoHS Compliant Declaration

We hereby declare that the components delivered to your company are compliant with RoHS directive 2015/863/EU.

Warehouse Storage Conditions of Products

(I) Storage Conditions :

1.Storage Temperature : -10℃~+40℃

2.Relative Humidity : ≦75%RH

3.Keep away from corrosive atmosphere and sunlight.

(II) Period of Storage : 1 year

Certificates

(1) IATF 16949 certificate
(2) ISO 9001 certificate

Test Report

(1) RoHS test report