



东莞久尹电子有限公司
DONGGUAN JOYIN ELECTRONICS CO., LTD.



SPECIFICATION FOR APPROVAL

201811020A

CUSTOMER:	万保刚
Products Name : NTC Thermistor	
JOYIN P/N :	
JNR10S080L85PU5	
Type No. :	
10S080L	
ISSUE DATE : Nov-08-2018	

DRAWN BY 庞春喜	CHECKED BY	APPROVED BY
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CUSTOMER RESPONSE		
<input type="checkbox"/> Approval <input type="checkbox"/> Approval with the following change <input type="checkbox"/> Reject with the following reasons		
CUSTOMER SIGNATURE	TITLE	DATE

- HEAD OFFICE & Taiwan Factory : **JOYIN CO., LTD.**
No.160, Ln. 623, Shenshen Rd., Yangmei Dist., Taoyuan City 32651, Taiwan
TEL:886-3-475-5094 FAX:886-3-475-6835 [Http://www.joyin.com.tw](http://www.joyin.com.tw)
- DONGGUAN Factory : **DONGGUAN JOYIN ELECTRONICS CO., LTD.**
No. 9, Jiang Jun Road, Huan Bo, Zhou Xi, Nan Cheng District, Dongguan,
Guangdong Province, China 523078
TEL:86-769-2240-2759 FAX:86-769-2240-4831



JOYIN

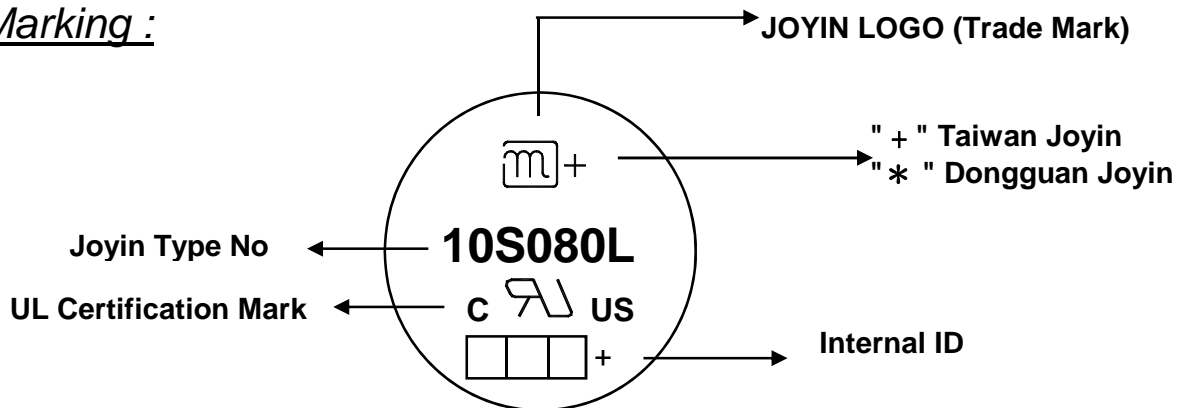
东莞久尹电子有限公司
DONGGUAN JOYIN ELECTRONICS CO.,LTD.

Part Number Code

JNR 10 S 080 L 8 5 P U5
 (1) (2) (3) (4) (5) (6) (7) (8) (9)

No.	Item	Digit	Specification
(1)	Product Type	JNR	Joyin NTC Thermistor Halogen-free & RoHS
(2)	Body Size	10	Φ 10 mm
(3)	Series	S	Inrush current limiting
(4)	Resistance of thermistor at 25°C	080	8 Ω
(5)	Tolerance	L	±15%
(6)	Lead Diameter	8	0.8 mm
(7)	Lead Spacing	5	5.0 mm
(8)	Lead Style	P	Straight Lead
(9)	Packaging Optional Suffix	U5	Bulk & Lead Length 25 mm min

Marking :





Electrical Characteristics

Type No.	Resistance at 25°C	Tolerance	I max.	RI max.	Maximum Capacitance AC(μF)	Max Power rating	Dissipation factor typical	Thermal Time Constant
	(Ohms)	(%)	(Amps)	(Ω)	(240V)	Pmax(W)	(mW/°C)	(sec.)
10S080L	8	±15	3.0	0.329	330	2.1	15	45

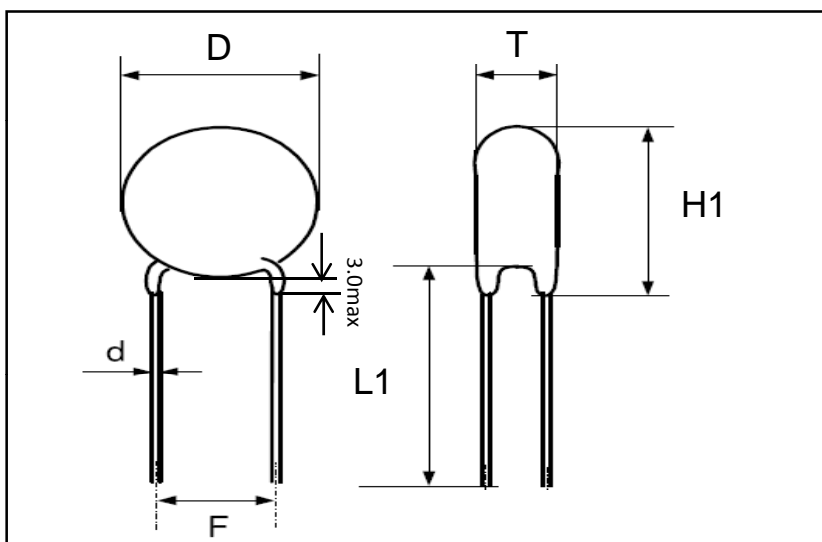
Material of coating : Silicone

Color of coating : Green

Operation temperature range : $\phi 5$: -40°C ~ 150°C
 $\phi 7 \sim \phi 10$: -40°C ~ 170°C
 $\phi 13 \sim \phi 20$: -40°C ~ 200°C

Lead style :

- P : Straight type
- Y : Kink type



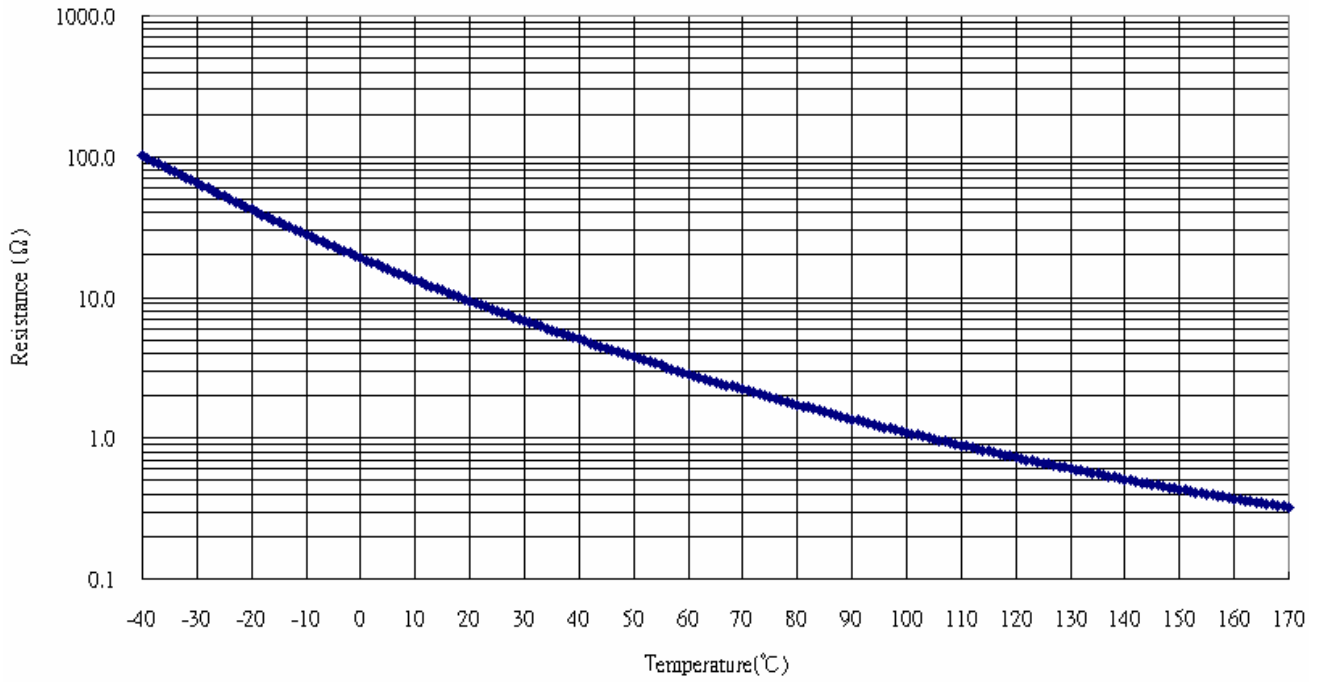
DIMENSION : (unit:mm)

Type No.	D max.	T max.	L1 min	F±1.0	d±0.05	H1 max
10S080L	12.5	7.5	25.0	5.0	0.8	17.5

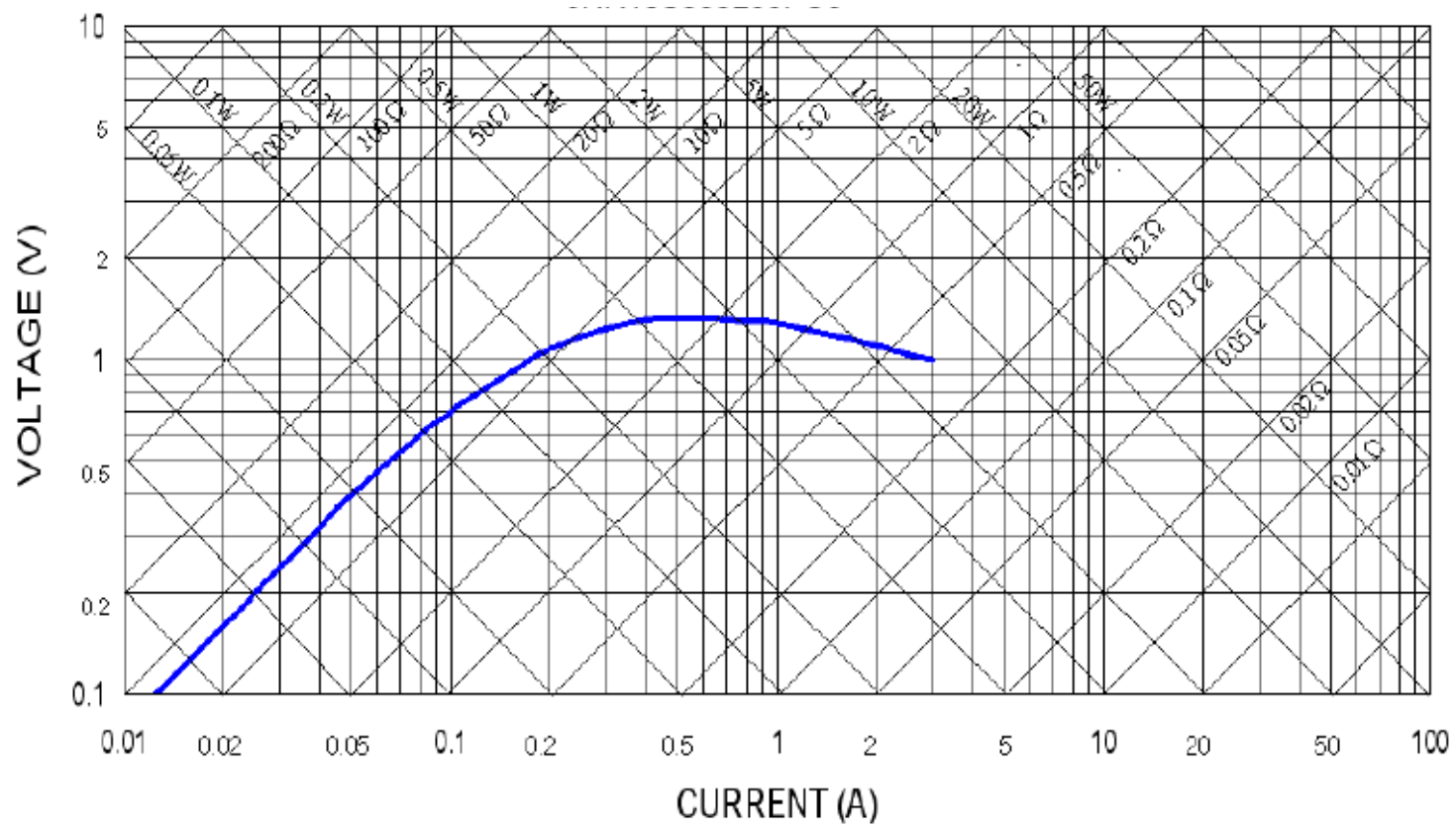
Note: Due to the mechanical force, which is acted on the wire lead, the coating may have cracks and chips. However, it does not affect the performance and reliability of the component.



R-T Characteristic Curve



V-I Characteristic Curve Ambient=25 °C





JOYIN CO., LTD

NTC Thermistor

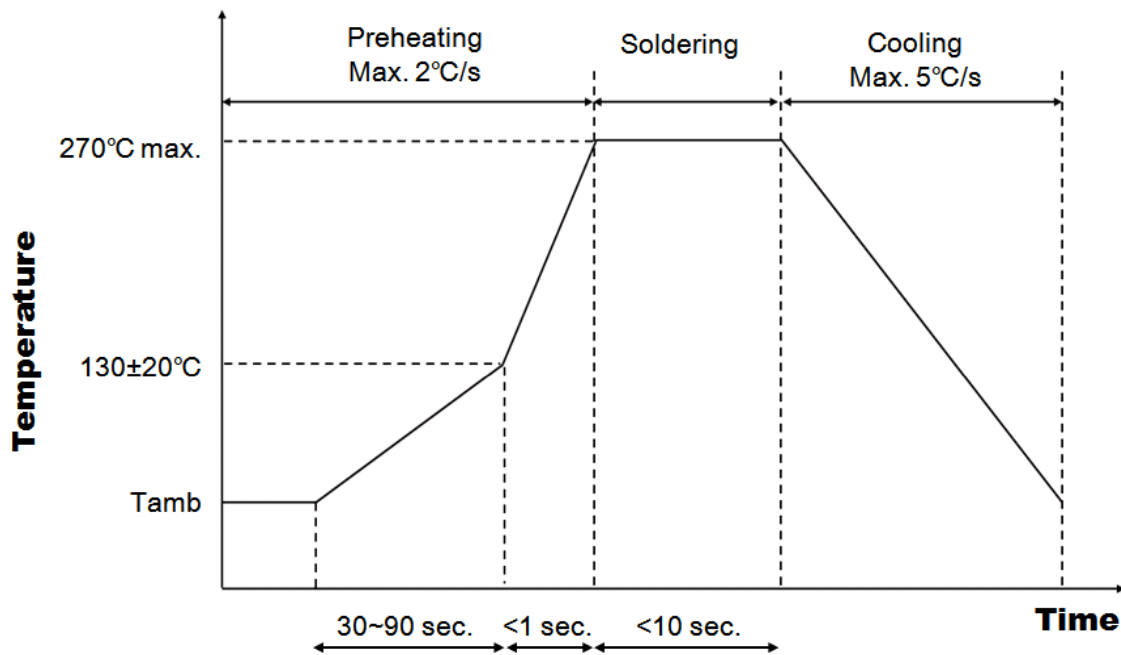
■ Reliability

Item	Standard	Test condition	Specifications															
Terminal pull strength	IEC 60068-2-21	After gradually applying the load specified below and keeping the unit fixed for 10 ±1 sec. <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Terminal diameter (mm)</th> <th>Loading weight in pull strength (kg)</th> </tr> </thead> <tbody> <tr> <td>0.5<d ≤0.8</td> <td>1.0</td> </tr> <tr> <td>0.8<d ≤1.25</td> <td>2.0</td> </tr> </tbody> </table>	Terminal diameter (mm)	Loading weight in pull strength (kg)	0.5<d ≤0.8	1.0	0.8<d ≤1.25	2.0	No visible damage									
Terminal diameter (mm)	Loading weight in pull strength (kg)																	
0.5<d ≤0.8	1.0																	
0.8<d ≤1.25	2.0																	
Terminal bending strength	IEC 60068-2-21	The unit is secured with one terminal kept in vertical and the weight specified above is applied in the axial direction. The terminal is gradually bent by 90° in one direction, then 90° in the opposite direction, and again back to the original position. <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Terminal diameter (mm)</th> <th>Loading weight in pull strength (kg)</th> </tr> </thead> <tbody> <tr> <td>0.5<d ≤0.8</td> <td>0.5</td> </tr> <tr> <td>0.8<d ≤1.25</td> <td>1.0</td> </tr> </tbody> </table>	Terminal diameter (mm)	Loading weight in pull strength (kg)	0.5<d ≤0.8	0.5	0.8<d ≤1.25	1.0	No visible damage									
Terminal diameter (mm)	Loading weight in pull strength (kg)																	
0.5<d ≤0.8	0.5																	
0.8<d ≤1.25	1.0																	
Solderability	IEC 60068-2-20	245±3°C, 3±0.3 sec	At least 95% of terminal electrode is covered by new solder															
Resistance to soldering heat	IEC 60068-2-20	260±3°C, 10±1 sec	No visible damage △R25 ≤ ±10%															
High temperature storage	IEC 60068-2-2	Tmax±5°C, 1000±24hrs	No visible damage △R25 ≤ ±20%															
Damp Heat	IEC 60068-2-78	40±2°C, 90~95% RH, 1000±24hrs	No visible damage △R25 ≤ ±20%															
Rapid Change of Temperature	IEC 60068-2-14	The conditions shown below shall be repeated 5 Cycles <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Step</th> <th>Temperature (°C)</th> <th>Period (minutes)</th> </tr> </thead> <tbody> <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>150/170/200±5</td> <td>30±3</td> </tr> <tr> <td>4</td> <td>Room temperature</td> <td>5±3</td> </tr> </tbody> </table>	Step	Temperature (°C)	Period (minutes)	1	-40±5	30±3	2	Room temperature	5±3	3	150/170/200±5	30±3	4	Room temperature	5±3	No visible damage △R25 ≤ ±20%
Step	Temperature (°C)	Period (minutes)																
1	-40±5	30±3																
2	Room temperature	5±3																
3	150/170/200±5	30±3																
4	Room temperature	5±3																
Room temperature Load	IEC 60539-1	25±5°C, I _{max} , 1000±24hrs	No visible damage △R25 ≤ ±20%															
Endurance	IEC60539-1	25±5°C, I _{max} , C _T , 1min ON/5min OFFx1000 Cycles C _T = Capacitance at 240Vac	No visible damage △R25 ≤ ±20%															
Insulation Resistance	MIL-STD-202F Method 302	1000V _{DC} , 1min	No visible damage ≥ 500MΩ															



Soldering Recommendation

■ Wave Flow Soldering Profile

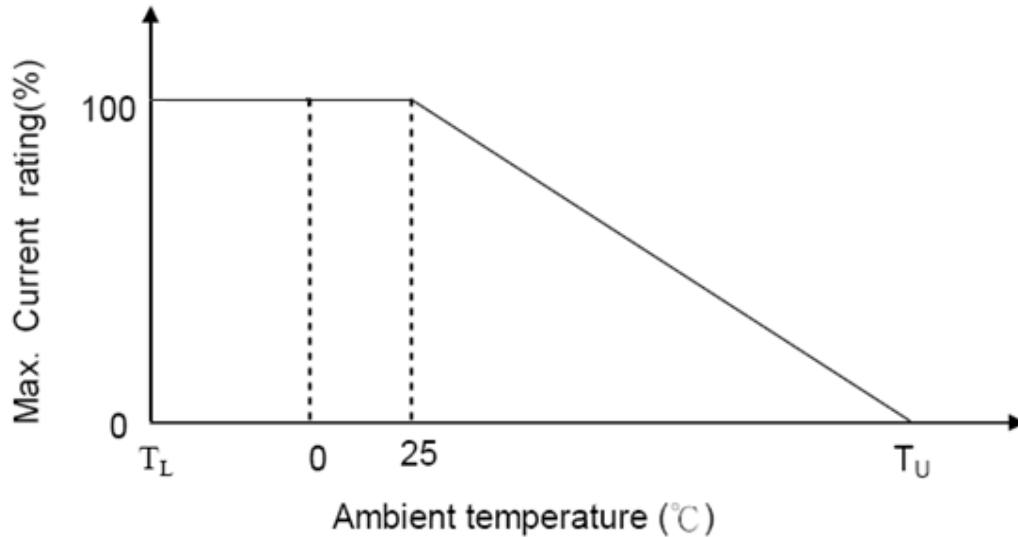


■ Recommended Reworking Conditions With Soldering Iron

Item	Conditions
Temperature of Soldering Iron-tip	380°C (max.)
Soldering Time	3 sec (max.)
Distance from NTC Thermistor	2 mm (min.)



Max. Current Derating Curve



Note : T_L = Minimum operating temperature (°C)

T_U = Maximum operating temperature (°C)

For example :

Ambient temperature(T_a)=55°C

Maximum operating temperature(T_u)=170°C

$P_{T_a}=(T_u-T_a)/(T_u-25) \times P_{max} = 82\% P_{max}$

RoHS Compliant Declaration

We hereby declare that the components delivered to your company are compliant with RoHS directive 2011/65/EU

Storage condition of products

(I) Storage Conditions :

1.Storage Temperature : -10°C ~ +40°C

2.Relative Humidity : $\leq 75\%RH$

3.Keep away from corrosive atmosphere and sunlight.

(II) Period of Storage : 1.0 year



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JOYIN CO LTD

160 Ln 623 Shenshen Rd
 Yangmei District
 Taoyuan, 32651 TAIWAN

E171531

Inrush Limiting NTC:

Model No.	Voltage (V)	Current (A)		Max Load Capacitance (uF)	Class	CA
		I _{max}	I _{ss}			
05S030X	240	3.0	3.0	100	C4	1(165), 2, 4
05S040X	240	2.0	2.0	100	C4	1(165), 2, 4
05S050X	240	2.0	2.0	100	C2	1(142), 2, 4
05S070X	240	1.2	1.2	100	C2	2, 4
05S080X	240	1.0	1.0	68	C2	2, 4
05S100X	240	1.0	1.0	100	C2	1(109), 2, 4
05S10AX	240	2.0	2.0	100	C4	1(165), 2, 4
05S120X	240	1.0	1.0	68	C2	2, 4
05S200X	240	0.3	0.3	100	C2	1(64), 2, 4
05S05AX	240	3.0	3.0	100	C4	1(174.7), 2, 4
05S08AX	240	2.0	2.0	68	C4	1(174.7), 2, 4
05S20AX	240	1.0	1.0	100	C4	1(174.7), 2, 4
07S050X	240	3.0	3.0	47	C3	2, 4
07S080Y	240	2.5	2.5	47	C3	2, 4
07S100Y	240	2.3	2.3	68	C3	2, 4
07S120Y	240	2.3	2.3	100	C3	2, 4
07S160Y	240	2.0	2.0	100	C3	2, 4
07S220Y	240	1.5	1.5	100	C3	2, 4
07S300Y	240	1.5	1.5	100	C3	2, 4
07S500Y	240	1.2	1.2	100	C3	2, 4
08S2R5X	240	4.0	4.0	100	C4	1(165), 2, 4
08S030X	240	3.0	3.0	100	C2	1(141), 2, 4
08S040X	240	2.0	2.0	100	C2	1(110), 2, 4
08S4R7X	240	2.0	2.0	100	C2	2, 4
08S050X	240	3.0	3.0	100	C2	2, 4
08S060X	240	3.0	3.0	100	C2	2, 4
08S070X	240	3.0	3.0	100	C2	2, 4

08S080X	240	3.0	3.0	100	C2	2, 4
08S100X	240	3.0	3.0	100	C2	2, 4
08S150Y	240	2.0	2.0	100	C2	2, 4
08S180Y	240	2.0	2.0	100	C2	2, 4
08S200Y	240	1.0	1.0	100	C2	2, 4
08S220Y	240	1.0	1.0	100	C2	2, 4
08S300X	240	0.5	0.5	100	C2	2, 4
09S030X	240	4.0	4.0	68	C2	2, 4
09S050X	240	3.8	3.8	68	C2	4
09S080Y	240	3.5	3.5	100	C2	4
09S100Y	240	3.0	3.0	100	C2	4
09S120Y	240	3.0	3.0	100	C2	4
09S160Y	240	2.5	2.5	100	C2	4
09S220Y	240	2.0	2.0	150	C2	4
09S500Y	240	1.4	1.4	150	C2	4
10S2R5X	240	5.0	5.0	220	C2	1(156), 2, 4
10S030X	240	5.0	5.0	330	C2	1(182), 2, 4
10S040X	240	4.0	4.0	330	C2	2, 4
10S050X	240	4.0	4.0	330	C2	2, 4
10S060Y	240	3.0	3.0	330	C2	2, 4
10S070Y	240	3.0	3.0	330	C2	2, 4
10S080Y	240	3.0	3.0	330	C2	2, 4
10S100Y	240	3.0	3.0	330	C2	2, 4
10S120X	240	3.0	3.0	330	C2	2, 4
10S130X	240	3.0	3.0	330	C2	2, 4
10S150Y	240	2.5	2.5	330	C2	2, 4
10S160Y	240	2.5	2.5	330	C2	2, 4
10S200Y	240	2.0	2.0	330	C2	2, 4
10S250Y	240	2.0	2.0	330	C2	2, 4
10S300Y	240	2.0	2.0	330	C2	2, 4
10S470Y	240	2.0	2.0	330	C2	2, 4
10S500Y	240	2.0	2.0	330	C2	2, 4
10S800Y	240	1.0	1.0	390	C2	2, 4
10S121Y	240	1.0	1.0	390	C3	1(145), 2, 4
10S1R0X	240	5.0	5.0	150	C4	1(170), 2, 4
10S1R3X	240	5.0	5.0	150	C4	1(170), 2, 4
10S1R5X	240	5.0	5.0	150	C4	1(170), 2, 4
10S2R0X	240	5.0	5.0	180	C4	1(170), 2, 4
10S6R8X	240	3.0	3.0	330	C4	1(170), 2, 4
10S220X	240	2.0	2.0	150	C4	1(170), 2, 4
10S101X	240	1.0	1.0	220	C4	1(170), 2, 4
13S1R3X	240	7.0	7.0	330	C2	1(143), 2, 4
13S2R5X	240	6.0	6.0	330	C2	2, 4
13S030X	240	6.0	6.0	330	C2	2, 4
13S050X	240	5.0	5.0	330	C4	1(195), 2, 4
13S060Y	240	5.0	5.0	330	C2	2, 4
13S070Y	240	4.0	4.0	330	C2	2, 4

	240	4.0	4.0	330	C2	2, 4
13S100X	240	5.0	5.0	330	C2	2, 4
13S120X	240	4.0	4.0	560	C2	1(193), 2, 4
13S150Y	240	3.0	3.0	560	C2	2, 4
13S160Y	240	3.0	3.0	560	C2	2, 4
13S180X	240	3.0	3.0	560	C2	2, 4
13S200Y	240	2.8	2.8	470	C2	2, 4
13S250Y	240	2.0	2.0	560	C2	2, 4
13S500Y	240	2.0	2.0	560	C2	2, 4
13S1R0X	240	7.0	7.0	330	C1	1 (104), 2, 4
13S2R0X	240	5.0	5.0	330	C1	1 (104), 2, 4
13S040X	240	5.0	5.0	330	C1	1 (104), 2, 4
13S4R7X	240	5.0	5.0	330	C1	1 (104), 2, 4
15S1R3X	240	8.0	8.0	470	C4	1(185), 2, 4
15S1R5X	240	8.0	8.0	470	C4	2, 4
15S2R5X	240	8.0	8.0	470	C4	2, 4
15S030X	240	7.0	7.0	470	C4	2, 4
15S040X	240	6.0	6.0	470	C4	2, 4
15S050X	240	6.0	6.0	470	C4	2, 4
15S060X	240	6.0	6.0	680	C2	1(211), 2, 4
15S070X	240	6.0	6.0	680	C2	2, 4
15S080X	240	6.0	6.0	680	C2	2, 4
15S100X	240	5.0	5.0	680	C2	2, 4
15S120X	240	5.0	5.0	680	C2	2, 4
15S150Y	240	4.0	4.0	680	C1	2, 4
15S160Y	240	4.0	4.0	680	C1	2, 4
15S180Y	240	4.0	4.0	680	C1	2, 4
15S200Y	240	4.0	4.0	680	C1	2, 4
15S250Y	240	3.0	3.0	680	C1	2, 4
15S300Y	240	3.0	3.0	680	C1	2, 4
15S330X	240	3.0	3.0	470	C2	2, 4
15S400Y	240	3.0	3.0	1000	C1	2, 4
15S470Y	240	3.0	3.0	1000	C1	2, 4
15S800Y	240	2.5	2.5	680	C1	2, 4
15S121Y	240	2.0	2.0	1000	C1	2, 4
15S221Y	240	1.0	1.0	1500	C1	1(148), 2, 4
15S0R7X	240	8.0	8.0	470	C4	2, 4
15S1R0X	240	8.0	8.0	470	C4	1(168), 2, 4
15S2R0X	240	8.0	8.0	470	C4	1(168), 2, 4
15S4R7X	240	6.0	6.0	470	C4	1(168), 2, 4
15S220X	240	4.0	4.0	470	C4	1(168), 2, 4
20S0R7X	240	13.0	13.0	1000	C3	1(153), 2, 4
20S1R3X	240	10.0	10.0	1000	C3	2, 4
20S2R5X	240	9.0	9.0	1000	C3	2, 4
20S050X	240	7.5	7.5	1000	C3	2, 4
20S060Y	240	7.0	7.0	1000	C3	2, 4
20S080Y	240	6.0	6.0	1000	C3	2, 4

	240	6.0	6.0	1000	C3	2, 4
20S120Y	240	5.0	5.0	1000	C3	2, 4
20S121Y	240	2.0	2.0	1500	C3	2, 4
20S1R0X	240	13.0	13.0	1000	C4	1(239), 2, 4
20S1R5X	240	10.5	10.5	1000	C4	1(239), 2, 4
20S2R0X	240	10.0	10.0	1000	C4	1(239), 2, 4
20S2R2X	240	9.5	9.5	1000	C3	1(187.3), 2, 4
20S030X	240	8.5	8.5	1000	C4	1(239), 2, 4
20S040X	240	8.0	8.0	1000	C4	1(239), 2, 4
20S4R7X	240	7.5	7.5	1000	C4	1(239), 2, 4
20S6R8X	240	6.5	6.5	1000	C4	1(239), 2, 4
20S070X	240	6.5	6.5	1000	C4	1(239), 2, 4
20S130X	240	5.0	5.0	1000	C4	1(239), 2, 4
20S150X	240	4.5	4.5	1000	C4	1(239), 2, 4
20S160X	240	4.5	4.5	1000	C4	1(187.3), 2, 4
20S180X	240	4.0	4.0	1000	C4	1(187.3), 2, 4
20S200X	240	4.0	4.0	1000	C4	1(239), 2, 4
25S1R0X	240	15.0	15.0	1200	C4	1(256), 4
25S1R5X	240	15.0	15.0	1200	C4	1(256), 4
25S2R0X	240	14.5	14.5	1200	C4	1(256), 4
25S2R5X	240	14.5	14.5	1200	C4	1(256), 4
25S030X	240	14.5	14.5	1200	C4	1(256), 4
25S040X	240	14.0	14.0	1200	C4	1(256), 4
25S4R7X	240	13.0	13.0	1200	C4	1(256), 4
25S050X	240	11.0	11.0	1200	C4	1(256), 4
25S6R8X	240	10.5	10.5	1200	C4	1(256), 4
25S070X	240	10.0	10.0	1200	C4	1(256), 4
25S080X	240	9.0	9.0	1200	C4	1(256), 4
25S100X	240	8.0	8.0	1200	C4	1(256), 4
25S120X	240	7.5	7.5	1200	C4	1(256), 4
25S150X	240	6.5	6.5	1200	C4	1(256), 4
25S180X	240	5.5	5.5	1200	C4	1(256), 4
25S200X	240	5.0	5.0	1200	C3	1(231), 4

Note: Suffix X standard for R25 tolerance and may at J (+/-5%) or K (+/-10%) or L (+/-15%) or M (+/-20%). Suffix Y standard for R25 tolerance and may at J (+/-5%) or K (+/-10%) or L (+/-15%).

NTC sensor:

Model No.	Resistance at 25°C (k ohm)	Tmoa (°C)	Class	CA
JFR103x344yz	10	105	C4	4
JSR103x344y, JAS103x344yz	10	105	C4	4
JSR103x395yz, JAS103x395yz	10	105	C4	4
JSR103x398y, JAS103x398yz	10	105	C4	4
JSR103x410yz, JAS103x410yz	10	105	C4	4
JSR473x395yz, JAS473x395yz	47	105	C4	4
JSR473x397yz, JAS473x397yz	47	105	C4	4
JSR473x405yz, JAS473x405yz	47	105	C4	4
JSR503x395yz, JAS503x395yz	50	105	C4	4

JSR503x397yz, JAS503x397yz	50	105	C4	4
JSR104x395yz, JAS104x395yz	100	105	C4	4
JSR104x425yz, JAS104x425yz	100	105	C4	4
JTD103x344yz	10	105	C4	4
JTD103x395yz	10	105	C4	4
JTD103x398yz	10	105	C4	4
JTD473x395yz	47	105	C4	4
JTD503x394yz	50	105	C4	4
JTD503x395yz	50	105	C4	4
JTD104x395yz	100	105	C4	4
JSNA103x338y	10	125	C4	4
JSNA103x344y	10	125	C4	4
JSNA103x397y	10	125	C4	4
JSNA103x410y	10	125	C4	4
JSNB103x344y	10	125	C4	4
JSNB103x397y	10	125	C4	4
JSNB103x410y	10	125	C4	4
JSNB473x395y	47	125	C4	4
JSNB473x405y	47	125	C4	4
JSNB104x395y	100	125	C4	4
JSNB104x440y	100	125	C4	4
JSNB204x406y	200	125	C4	4
JSNB334x410y	330	125	C4	4
JSNC103x344y	10	125	C4	4
JSNC103x397y	10	125	C4	4
JSNC223x390y	22	125	C4	4
JSNC473x395y	47	125	C4	4
JSNC473x400y	47	125	C4	4
JSNC683x400y	68	125	C4	4
JSNC104x398y	100	125	C4	4
JSNC104x400y	100	125	C4	4
JSNC104x405y	100	125	C4	4
JSNC204x395y	200	125	C4	4

x - May be D(+/-0.5%), F(+/-1%), G(+/-2%), H(+/-3%), J(+/-5%) or K(+/-10%) for the tolerance of R25.

y - May be D(+/-0.5%), F(+/-1%), G(+/-2%), H(+/-3%), J(+/-5%) or K(+/-10%) for the tolerance of Beta value.

z - May be A(B25/50) or B(B25/85) for definition of Beta value.

Model No.	Resistance at 25°C (k ohm)	Tmoa (°C)	Class	CA
JCR103x405yA, JJCR103x405yA, JJCH103x405yA, JAT103x405yA, JAC103x405yA	10	100	C4	4
JCR103x410yA, JJCR103x410yA, JJCH103x410yA, JAT103x410yA, JAC103x410yA	10	100	C4	4
JCR123x405yA, JJCR123x405yA, JJCH123x405yA, JAT123x405yA, JAC123x405yA	12	100	C4	4
JCR153x415yA, JJCR153x415yA, JJCH153x415yA, JAT153x415yA, JAC153x415yA	15	100	C4	4
JCR203x425yA, JJCR303x425yA, JJCH303x425yA, JAT303x425yA, JAC303x425yA	20	100	C4	4
JCR303x425yA, JJCR303x425yA, JJCH303x425yA, JAT303x425yA, JAC303x425yA	30	100	C4	4
JCR473x430yA, JJCR473x430yA, JJCH473x430yA, JAT473x430yA, JAC473x430yA	47	100	C4	4

JCR503x430yA, JJCR503x430yA, JJCH503x430yA, JAT503x430yA, JAC503x430yA	50	100	C4	4
JCR104x440yA, JJCR104x440yA, JJCH104x440yA, JAT104x440yA, JAC104x440yA	100	100	C4	4
JCR104x447yA, JJCR104x447yA, JJCH104x447yA, JAT104x447yA, JAC104x447yA	100	100	C4	4
JCR154x450yA, JJCR154x450yA, JJCH154x450yA, JAT154x450yA, JAC154x450yA	150	100	C4	4
JCR204x460yA, JJCR204x460yA, JJCH204x460yA, JAT204x460yA, JAC204x460yA	200	100	C4	4
JCR224x460yA, JJCR224x460yA, JJCH224x460yA, JAT224x460yA, JAC224x460yA	220	100	C4	4
JCR474x475yA, JJCR474x475yA, JJCH474x475yA, JAT474x475yA, JAC474x475yA	470	100	C4	4
JCR474x520yA, JJCR474x520yA, JJCH474x520yA, JAT474x520yA, JAC474x520yA	470	100	C4	4
JCR103x344yB, JJCR103x344yB, JJCH103x344yB, JAT103x344yB, JAC103x344yB	10	100	C4	4
JCR103x374yB, JJCR103x374yB, JJCH103x374yB, JAT103x374yB, JAC103x374yB	10	100	C4	4
JCR103x398yB, JJCR103x398yB, JJCH103x398yB, JAT103x398yB, JAC103x398yB	10	100	C4	4
JCR123x374yB, JJCR123x374yB, JJCH123x374yB, JAT123x374yB, JAC123x374yB	12	100	C4	4
JCR153x374yB, JJCR153x374yB, JJCH153x374yB, JAT153x374yB, JAC153x374yB	15	100	C4	4
JCR203x374yB, JJCR203x374yB, JJCH203x374yB, JAT203x374yB, JAC203x374yB	20	100	C4	4
JCR223x374yB, JJCR223x374yB, JJCH223x374yB, JAT223x374yB, JAC223x374yB	22	100	C4	4
JCR333x409yB, JJCR333x409yB, JJCH333x409yB, JAT333x409yB, JAC333x409yB	33	100	C4	4
JCR473x409yB, JJCR473x409yB, JJCH473x409yB, JAT473x409yB, JAC473x409yB	47	100	C4	4
JCR503x398yB, JJCR503x398yB, JJCH503x398yB, JAT503x398yB, JAC503x398yB	50	100	C3	4
JCR503x406yB, JJCR503x406yB, JJCH503x406yB, JAT503x406yB, JAC503x406yB	50	100	C4	4
JCR683x419yB, JJCR683x419yB, JJCH683x419yB, JAT683x419yB, JAC683x419yB	68	100	C4	4
JCR683x435yB, JJCR683x435yB, JJCH683x435yB, JAT683x435yB, JAC683x435yB	68	100	C4	4
JCR104x419yB, JJCR104x419yB, JJCH104x419yB, JAT104x419yB, JAC104x419yB	100	100	C4	4
JCR104x445yB, JJCR104x445yB, JJCH104x445yB, JAT104x445yB, JAC104x445yB	100	100	C4	4
JCR104x450yB, JJCR104x450yB, JJCH104x450yB, JAT104x450yB, JAC104x450yB	100	100	C4	4
JCR154x437yB, JJCR154x437yB, JJCH154x437yB, JAT154x437yB, JAC154x437yB	150	100	C4	4
JCR204x470yB, JJCR204x470yB, JJCH204x470yB, JAT204x470yB, JAC204x470yB	200	100	C4	4
JCR224x437yB, JJCR224x437yB, JJCH224x437yB, JAT224x437yB, JAC224x437yB	220	100	C4	4
JCR334x457yB, JJCR334x457yB, JJCH334x457yB, JAT334x457yB, JAC334x457yB	330	100	C4	4
JCR474x457yB, JJCR474x457yB, JJCH474x457yB, JAT474x457yB, JAC474x457yB	470	100	C4	4
JCR504x535yB, JJCR504x535yB, JJCH504x535yB, JAT504x535yB, JAC504x535yB	500	100	C4	4
JSNA102	1	125	C4	4
JSNA472	4.7	125	C4	4
JSNA103	10	125	C4	4
JSNA223	22	125	C4	4
JSNA473	47	125	C4	4
JSNA683	68	125	C4	4
JSNA104	100	125	C4	4
JSNA474	470	125	C4	4
JSNB222	2.2	125	C4	4
JSNB332	3.3	125	C4	4
JSNB472	4.7	125	C4	4
JSNB4R85	4.85	125	C4	4
JSNB502	5	125	C4	4
JSNB682	6.8	125	C4	4
JSNB103	10	125	C4	4
JSNB223	22	125	C4	4
JSNB333	33	125	C4	4

	47	125	C4	4
JSNB503	50	125	C4	4
JSNB104	100	125	C4	4
JSNB154	150	125	C4	4
JSNB204	200	125	C4	4
JSNB224	220	125	C4	4
JSNB334	330	125	C4	4
JSNB474	470	125	C4	4
JSNB504	500	125	C4	4
JSNB564	560	125	C4	4
JSNC682	6.8	125	C4	4
JSNC103	10	125	C4	4
JSNC223	22	125	C4	4
JSNC473	47	125	C4	4
JSNC503	50	125	C4	4
JSNC683	68	125	C4	4
JSNC104	100	125	C4	4
JSNC204	200	125	C4	4

x - May be F(+/-1%), G(+/-2%), H(+/-3%), J(+/-5%), K(+/-10%), L(+/-15%), or M(+/-20%) denoting the tolerance of R25.

y - May be F(+/-1%), G(+/-2%), H(+/-3%), J(+/-5%) or K(+/-10%) denoting the tolerance of B value.



Marking: Company name or trademark and model number on each device or smallest package.

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160 Ln 623 Shenshen Rd
Yangmei District
Taoyuan, 32651 TAIWAN

E171531

Inrush-limiting NTC:

Model No.	Voltage (V)	Current (A)		Max Load Capacitance (uF)	Class	CA
		I _{max}	I _{ss}			
05S030X	240	3.0	3.0	100	C4	1(165), 2, 4
05S040X	240	2.0	2.0	100	C4	1(165), 2, 4
05S050X	240	2.0	2.0	100	C2	1(142), 2, 4
05S070X	240	1.2	1.2	100	C2	2, 4
05S080X	240	1.0	1.0	68	C2	2, 4
05S100X	240	1.0	1.0	100	C2	1(109), 2, 4
05S10AX	240	2.0	2.0	100	C4	1(165), 2, 4
05S120X	240	1.0	1.0	68	C2	2, 4
05S200X	240	0.3	0.3	100	C2	1(64), 2, 4
05S05AX	240	3.0	3.0	100	C4	1(174.7), 2, 4
05S08AX	240	2.0	2.0	68	C4	1(174.7), 2, 4
05S20AX	240	1.0	1.0	100	C4	1(174.7), 2, 4
07S050X	240	3.0	3.0	47	C3	2, 4
07S080Y	240	2.5	2.5	47	C3	2, 4
07S100Y	240	2.3	2.3	68	C3	2, 4
07S120Y	240	2.3	2.3	100	C3	2, 4
07S160Y	240	2.0	2.0	100	C3	2, 4
07S220Y	240	1.5	1.5	100	C3	2, 4
07S300Y	240	1.5	1.5	100	C3	2, 4
07S500Y	240	1.2	1.2	100	C3	2, 4
08S2R5X	240	4.0	4.0	100	C4	1(165), 2, 4
08S030X	240	3.0	3.0	100	C2	1(141), 2, 4
08S040X	240	2.0	2.0	100	C2	1(110), 2, 4
08S4R7X	240	2.0	2.0	100	C2	2, 4
08S050X	240	3.0	3.0	100	C2	2, 4
08S060X	240	3.0	3.0	100	C2	2, 4
08S070X	240	3.0	3.0	100	C2	2, 4

08S080X	240	3.0	3.0	100	C2	2, 4
08S100X	240	3.0	3.0	100	C2	2, 4
08S150Y	240	2.0	2.0	100	C2	2, 4
08S180Y	240	2.0	2.0	100	C2	2, 4
08S200Y	240	1.0	1.0	100	C2	2, 4
08S220Y	240	1.0	1.0	100	C2	2, 4
08S300X	240	0.5	0.5	100	C2	2, 4
09S030X	240	4.0	4.0	68	C2	2, 4
09S050X	240	3.8	3.8	68	C2	4
09S080Y	240	3.5	3.5	100	C2	4
09S100Y	240	3.0	3.0	100	C2	4
09S120Y	240	3.0	3.0	100	C2	4
09S160Y	240	2.5	2.5	100	C2	4
09S220Y	240	2.0	2.0	150	C2	4
09S500Y	240	1.4	1.4	150	C2	4
10S2R5X	240	5.0	5.0	220	C2	1(156), 2, 4
10S030X	240	5.0	5.0	330	C2	1(182), 2, 4
10S040X	240	4.0	4.0	330	C2	2, 4
10S050X	240	4.0	4.0	330	C2	2, 4
10S060Y	240	3.0	3.0	330	C2	2, 4
10S070Y	240	3.0	3.0	330	C2	2, 4
10S080Y	240	3.0	3.0	330	C2	2, 4
10S100Y	240	3.0	3.0	330	C2	2, 4
10S120X	240	3.0	3.0	330	C2	2, 4
10S130X	240	3.0	3.0	330	C2	2, 4
10S150Y	240	2.5	2.5	330	C2	2, 4
10S160Y	240	2.5	2.5	330	C2	2, 4
10S200Y	240	2.0	2.0	330	C2	2, 4
10S250Y	240	2.0	2.0	330	C2	2, 4
10S300Y	240	2.0	2.0	330	C2	2, 4
10S470Y	240	2.0	2.0	330	C2	2, 4
10S500Y	240	2.0	2.0	330	C2	2, 4
10S800Y	240	1.0	1.0	390	C2	2, 4
10S121Y	240	1.0	1.0	390	C3	1(145), 2, 4
10S1R0X	240	5.0	5.0	150	C4	1(170), 2, 4
10S1R3X	240	5.0	5.0	150	C4	1(170), 2, 4
10S1R5X	240	5.0	5.0	150	C4	1(170), 2, 4
10S2R0X	240	5.0	5.0	180	C4	1(170), 2, 4
10S6R8X	240	3.0	3.0	330	C4	1(170), 2, 4
10S220X	240	2.0	2.0	150	C4	1(170), 2, 4
10S101X	240	1.0	1.0	220	C4	1(170), 2, 4
13S1R3X	240	7.0	7.0	330	C2	1(143), 2, 4
13S2R5X	240	6.0	6.0	330	C2	2, 4
13S030X	240	6.0	6.0	330	C2	2, 4
13S050X	240	5.0	5.0	330	C4	1(195), 2, 4
13S060Y	240	5.0	5.0	330	C2	2, 4
13S070Y	240	4.0	4.0	330	C2	2, 4

	240	4.0	4.0	330	C2	2, 4
13S100X	240	5.0	5.0	330	C2	2, 4
13S120X	240	4.0	4.0	560	C2	1(193), 2, 4
13S150Y	240	3.0	3.0	560	C2	2, 4
13S160Y	240	3.0	3.0	560	C2	2, 4
13S180X	240	3.0	3.0	560	C2	2, 4
13S200Y	240	2.8	2.8	470	C2	2, 4
13S250Y	240	2.0	2.0	560	C2	2, 4
13S500Y	240	2.0	2.0	560	C2	2, 4
13S1R0X	240	7.0	7.0	330	C1	1 (104), 2, 4
13S2R0X	240	5.0	5.0	330	C1	1 (104), 2, 4
13S040X	240	5.0	5.0	330	C1	1 (104), 2, 4
13S4R7X	240	5.0	5.0	330	C1	1 (104), 2, 4
15S1R3X	240	8.0	8.0	470	C4	1(185), 2, 4
15S1R5X	240	8.0	8.0	470	C4	2, 4
15S2R5X	240	8.0	8.0	470	C4	2, 4
15S030X	240	7.0	7.0	470	C4	2, 4
15S040X	240	6.0	6.0	470	C4	2, 4
15S050X	240	6.0	6.0	470	C4	2, 4
15S060X	240	6.0	6.0	680	C2	1(211), 2, 4
15S070X	240	6.0	6.0	680	C2	2, 4
15S080X	240	6.0	6.0	680	C2	2, 4
15S100X	240	5.0	5.0	680	C2	2, 4
15S120X	240	5.0	5.0	680	C2	2, 4
15S150Y	240	4.0	4.0	680	C1	2, 4
15S160Y	240	4.0	4.0	680	C1	2, 4
15S180Y	240	4.0	4.0	680	C1	2, 4
15S200Y	240	4.0	4.0	680	C1	2, 4
15S250Y	240	3.0	3.0	680	C1	2, 4
15S300Y	240	3.0	3.0	680	C1	2, 4
15S330X	240	3.0	3.0	470	C2	2, 4
15S400Y	240	3.0	3.0	1000	C1	2, 4
15S470Y	240	3.0	3.0	1000	C1	2, 4
15S800Y	240	2.5	2.5	680	C1	2, 4
15S121Y	240	2.0	2.0	1000	C1	2, 4
15S221Y	240	1.0	1.0	1500	C1	1(148), 2, 4
15S0R7X	240	8.0	8.0	470	C4	2, 4
15S1R0X	240	8.0	8.0	470	C4	1(168), 2, 4
15S2R0X	240	8.0	8.0	470	C4	1(168), 2, 4
15S4R7X	240	6.0	6.0	470	C4	1(168), 2, 4
15S220X	240	4.0	4.0	470	C4	1(168), 2, 4
20S0R7X	240	13.0	13.0	1000	C3	1(153), 2, 4
20S1R3X	240	10.0	10.0	1000	C3	2, 4
20S2R5X	240	9.0	9.0	1000	C3	2, 4
20S050X	240	7.5	7.5	1000	C3	2, 4
20S060Y	240	7.0	7.0	1000	C3	2, 4
20S080Y	240	6.0	6.0	1000	C3	2, 4

	240	6.0	6.0	1000	C3	2, 4
20S120Y	240	5.0	5.0	1000	C3	2, 4
20S121Y	240	2.0	2.0	1500	C3	2, 4
20S1R0X	240	13.0	13.0	1000	C4	1(239), 2, 4
20S1R5X	240	10.5	10.5	1000	C4	1(239), 2, 4
20S2R0X	240	10.0	10.0	1000	C4	1(239), 2, 4
20S2R2X	240	9.5	9.5	1000	C3	1(187.3), 2, 4
20S030X	240	8.5	8.5	1000	C4	1(239), 2, 4
20S040X	240	8.0	8.0	1000	C4	1(239), 2, 4
20S4R7X	240	7.5	7.5	1000	C4	1(239), 2, 4
20S6R8X	240	6.5	6.5	1000	C4	1(239), 2, 4
20S070X	240	6.5	6.5	1000	C4	1(239), 2, 4
20S130X	240	5.0	5.0	1000	C4	1(239), 2, 4
20S150X	240	4.5	4.5	1000	C4	1(239), 2, 4
20S160X	240	4.5	4.5	1000	C4	1(187.3), 2, 4
20S180X	240	4.0	4.0	1000	C4	1(187.3), 2, 4
20S200X	240	4.0	4.0	1000	C4	1(239), 2, 4
25S1R0X	240	15.0	15.0	1200	C4	1(256), 4
25S1R5X	240	15.0	15.0	1200	C4	1(256), 4
25S2R0X	240	14.5	14.5	1200	C4	1(256), 4
25S2R5X	240	14.5	14.5	1200	C4	1(256), 4
25S030X	240	14.5	14.5	1200	C4	1(256), 4
25S040X	240	14.0	14.0	1200	C4	1(256), 4
25S4R7X	240	13.0	13.0	1200	C4	1(256), 4
25S050X	240	11.0	11.0	1200	C4	1(256), 4
25S6R8X	240	10.5	10.5	1200	C4	1(256), 4
25S070X	240	10.0	10.0	1200	C4	1(256), 4
25S080X	240	9.0	9.0	1200	C4	1(256), 4
25S100X	240	8.0	8.0	1200	C4	1(256), 4
25S120X	240	7.5	7.5	1200	C4	1(256), 4
25S150X	240	6.5	6.5	1200	C4	1(256), 4
25S180X	240	5.5	5.5	1200	C4	1(256), 4
25S200X	240	5.0	5.0	1200	C3	1(231), 4

Note: Suffix X standard for R25 tolerance and may at J (+/-5%) or K (+/-10%) or L (+/-15%) or M (+/-20%). Suffix Y standard for R25 tolerance and may at J (+/-5%) or K (+/-10%) or L (+/-15%).

NTC sensor:

Model No.	Resistance at 25°C (k ohm)	Tmoa (°C)	Class	CA
JFR103x344yz	10	105	C4	4
JSR103x344y, JAS103x344yz	10	105	C4	4
JSR103x395yz, JAS103x395yz	10	105	C4	4
JSR103x398yz	10	105	C4	4
JSR103x410yz, JAS103x410yz	10	105	C4	4
JSR473x395yz, JAS473x395yz	47	105	C4	4
JSR473x397yz, JAS473x397yz	47	105	C4	4
JSR473x405yz, JAS473x405yz	47	105	C4	4
JSR503x395yz, JAS503x395yz	50	105	C4	4

JSR503x397yz, JAS503x397yz	50	105	C4	4
JSR104x395yz, JAS104x395yz	100	105	C4	4
JSR104x425yz, JAS104x425yz	100	105	C4	4
JTD103x344yz	10	105	C4	4
JTD103x395yz	10	105	C4	4
JTD103x398yz	10	105	C4	4
JTD473x395yz	47	105	C4	4
JTD503x394yz	50	105	C4	4
JTD503x395yz	50	105	C4	4
JTD104x395yz	100	105	C4	4
JSNA103x338y	10	125	C4	4
JSNA103x344y	10	125	C4	4
JSNA103x397y	10	125	C4	4
JSNA103x410y	10	125	C4	4
JSNB103x344y	10	125	C4	4
JSNB103x397y	10	125	C4	4
JSNB103x410y	10	125	C4	4
JSNB473x395y	47	125	C4	4
JSNB473x405y	47	125	C4	4
JSNB104x395y	100	125	C4	4
JSNB104x440y	100	125	C4	4
JSNB204x406y	200	125	C4	4
JSNB334x410y	330	125	C4	4
JSNC103x344y	10	125	C4	4
JSNC103x397y	10	125	C4	4
JSNC223x390y	22	125	C4	4
JSNC473x395y	47	125	C4	4
JSNC473x400y	47	125	C4	4
JSNC683x400y	68	125	C4	4
JSNC104x398y	100	125	C4	4
JSNC104x400y	100	125	C4	4
JSNC104x405y	100	125	C4	4
JSNC204x395y	200	125	C4	4

x - May be D(+/-0.5%), F(+/-1%), G(+/-2%), H(+/-3%), J(+/-5%) or K(+/-10%) for the tolerance of R25.

y - May be D(+/-0.5%), F(+/-1%), G(+/-2%), H(+/-3%), J(+/-5%) or K(+/-10%) for the tolerance of Beta value.

z - May be A(B25/50) or B(B25/85) for definition of Beta value.

Model No.	Resistance at 25°C (k ohm)	Tmoa (°C)	Class	CA
JCR103x405yA	10	100	C4	4
JCR103x410yA, JJCR103x410yA, JJCH103x410yA, JAT103x410yA, JAC103x410yA	10	100	C4	4
JCR123x405yA, JJCR123x405yA, JJCH123x405yA, JAT123x405yA, JAC123x405yA	12	100	C4	4
JCR153x415yA, JJCR153x415yA, JJCH153x415yA, JAT153x415yA, JAC153x415yA	15	100	C4	4
JCR203x425yA, JJCR203x425yA, JJCH203x425yA, JAT203x425yA, JAC203x425yA	20	100	C4	4
JCR303x425yA, JJCR303x425yA, JJCH303x425yA, JAT303x425yA, JAC303x425yA	30	100	C4	4
JCR473x430yA, JJCR473x430yA, JJCH473x430yA, JAT473x430yA, JAC473x430yA	47	100	C4	4



JCR503x430yA, JJCR503x430yA, JJCH503x430yA, JAT503x430yA, JAC503x430yA	50	100	C4	4
JCR104x440yA, JJCR104x440yA, JJCH104x440yA, JAT104x440yA, JAC104x440yA	100	100	C4	4
JCR104x447yA, JJCR104x447yA, JJCH104x447yA, JAT104x447yA, JAC104x447yA	100	100	C4	4
JCR154x450yA, JJCR154x450yA, JJCH154x450yA, JAT154x450yA, JAC154x450yA	150	100	C4	4
JCR204x460yA, JJCR204x460yA, JJCH204x460yA, JAT204x460yA, JAC204x460yA	200	100	C4	4
JCR224x460yA, JJCR224x460yA, JJCH224x460yA, JAT224x460yA, JAC224x460yA	220	100	C4	4
JCR474x475yA, JJCR474x475yA, JJCH474x475yA, JAT474x475yA, JAC474x475yA	470	100	C4	4
JCR474x520yA, JJCR474x520yA, JJCH474x520yA, JAT474x520yA, JAC474x520yA	470	100	C4	4
JCR103x344yB, JJCR103x344yB, JJCH103x344yB, JAT103x344yB, JAC103x344yB	10	100	C4	4
JCR103x374yB, JJCR103x374yB, JJCH103x374yB, JAT103x374yB, JAC103x374yB	10	100	C4	4
JCR103x398yB, JJCR103x398yB, JJCH103x398yB, JAT103x398yB, JAC103x398yB	10	100	C4	4
JCR123x374yB, JJCR123x374yB, JJCH123x374yB, JAT123x374yB, JAC123x374yB	12	100	C4	4
JCR153x374yB, JJCR153x374yB, JJCH153x374yB, JAT153x374yB, JAC153x374yB	15	100	C4	4
JCR203x374yB, JJCR203x374yB, JJCH203x374yB, JAT203x374yB, JAC203x374yB	20	100	C4	4
JCR223x374yB, JJCR223x374yB, JJCH223x374yB, JAT223x374yB, JAC223x374yB	22	100	C4	4
JCR333x409yB, JJCR333x409yB, JJCH333x409yB, JAT333x409yB, JAC333x409yB	33	100	C4	4
JCR473x409yB, JJCR473x409yB, JJCH473x409yB, JAT473x409yB, JAC473x409yB	47	100	C4	4
JCR503x398yB, JJCR503x398yB, JJCH503x398yB, JAT503x398yB, JAC503x398yB	50	100	C3	4
JCR503x406yB, JJCR503x406yB, JJCH503x406yB, JAT503x406yB, JAC503x406yB	50	100	C4	4
JCR683x419yB, JJCR683x419yB, JJCH683x419yB, JAT683x419yB, JAC683x419yB	68	100	C4	4
JCR683x435yB, JJCR683x435yB, JJCH683x435yB, JAT683x435yB, JAC683x435yB	68	100	C4	4
JCR104x419yB, JJCR104x419yB, JJCH104x419yB, JAT104x419yB, JAC104x419yB	100	100	C4	4
JCR104x445yB, JJCR104x445yB, JJCH104x445yB, JAT104x445yB, JAC104x445yB	100	100	C4	4
JCR104x450yB, JJCR104x450yB, JJCH104x450yB, JAT104x450yB, JAC104x450yB	100	100	C4	4
JCR154x437yB, JJCR154x437yB, JJCH154x437yB, JAT154x437yB, JAC154x437yB	150	100	C4	4
JCR204x470yB, JJCR204x470yB, JJCH204x470yB, JAT204x470yB, JAC204x470yB	200	100	C4	4
JCR224x437yB, JJCR224x437yB, JJCH224x437yB, JAT224x437yB, JAC224x437yB	220	100	C4	4
JCR334x457yB, JJCR334x457yB, JJCH334x457yB, JAT334x457yB, JAC334x457yB	330	100	C4	4
JCR474x457yB, JJCR474x457yB, JJCH474x457yB, JAT474x457yB, JAC474x457yB	470	100	C4	4
JCR504x535yB, JJCR504x535yB, JJCH504x535yB, JAT504x535yB, JAC504x535yB	500	100	C4	4
JSNA102	1	125	C4	4
JSNA472	4.7	125	C4	4
JSNA103	10	125	C4	4
JSNA223	22	125	C4	4
JSNA473	47	125	C4	4
JSNA683	68	125	C4	4
JSNA104	100	125	C4	4
JSNA474	470	125	C4	4
JSNB222	2.2	125	C4	4
JSNB332	3.3	125	C4	4
JSNB472	4.7	125	C4	4
JSNB4R85	4.85	125	C4	4
JSNB502	5	125	C4	4
JSNB682	6.8	125	C4	4
JSNB103	10	125	C4	4
JSNB223	22	125	C4	4
JSNB333	33	125	C4	4

	47	125	C4	4
JSNB503	50	125	C4	4
JSNB104	100	125	C4	4
JSNB154	150	125	C4	4
JSNB204	200	125	C4	4
JSNB224	220	125	C4	4
JSNB334	330	125	C4	4
JSNB474	470	125	C4	4
JSNB504	500	125	C4	4
JSNB564	560	125	C4	4
JSNC682	6.8	125	C4	4
JSNC103	10	125	C4	4
JSNC223	22	125	C4	4
JSNC473	47	125	C4	4
JSNC503	50	125	C4	4
JSNC683	68	125	C4	4
JSNC104	100	125	C4	4
JSNC204	200	125	C4	4

x - May be F(+/-1%), G(+/-2%), H(+/-3%), J(+/-5%), K(+/-10%), L(+/-15%), or M(+/-20%) denoting the tolerance of R25.

y - May be F(+/-1%), G(+/-2%), H(+/-3%), J(+/-5%) or K(+/-10%) denoting the tolerance of B value.



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Certificate CN11/30558

The management system of

Dongguan Joyin Electronics Co., Ltd.

No.9, Jiangjun Road, Huanbo, Zhouxi, Nancheng District, Dongguan City, Guangdong Province, P.R. China

Unified Social Credit Code 914419006183413177

has been assessed and certified as meeting the requirements of

ISO 9001:2015

For the following activities

Manufacture of Varistors and Thermistors

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2015 requirements may be obtained by consulting the organisation

This certificate is valid from 25 May 2017 until 24 May 2020 and remains valid subject to satisfactory surveillance audits. Recertification audit due a minimum of 60 days before the expiration date. Issue 3. Certified since 24 May 2011

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MATERIAL DESCRIPTION

Coating material for NTC Thermistors

The NTC Thermistor is coated by silicone resin. The silicone resin, made by highly cross-linked structure thermosetting polysiloxane polymer, is specially designed for the resistor and widely applied in the industry over 50 years. It's also an ideal sealing material for the components which have high temperature resistance and dampness against requirements.

Characteristics:

1, Advantages

- ◆ High temperature resistance (over 300 °C)
- ◆ quick heat dissipation
- ◆ excellent insulating property
- ◆ excellent humidity resistance and flame retardance
- ◆ especially protection during machine restart

2, Disadvantages

- ◆ Weak rub resistance on the surface of silicone resin sealed product. It's easy to resulting abrasion marks on the product during manufacturing and transporting.
- ◆ Silicone resin is quite solidly but weakly on toughness. The silicone resin sealed product will cause cracking on the coating of lead wires in case of it's impacted by improperly force. The improperly force include rude handling during transportation, improperly force application during rework on the lead wires, outward break the lead wires, to match the component with the PCB even both pitch are not match.

As the silicone resin has excellent advantages, it's irreplaceable recently. And because of its disadvantage in characteristic, the product sealed with silicone resin will face unavoidable problem. Here under are the explanations for well understanding.

Abrasion marks on the product surface resulted by rubbing is easy to be erased by man. And have no affect on product's function.

Reliability test result tell that the products with crack on the coating of lead wires(the crack did not hurt ceramic disk) have the same electrical proformance with the perfect apperance ones.

In conclusion, all the products are fully check before delivery. Please feel relieved about usage.