Dersonic®
德信立業 創新開拓

承认书

APPROVAL SHEET

客户 CUSTOMER	立創商城
客户料号 CUSTOMER P/N	
规格描述 DESCRIPTION	0805/470Ω/±50%/95℃/TR
产品编码 PART NUMBER	3-SMDRBH-0805-471-95
日期 DATE	2026-06-01

德尔创承认栏 APPROVED BY DERSONIC			客户承认栏 APPROVED BY CUSTOMER	
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东莞市德尔创电子有限公司 样品承认章

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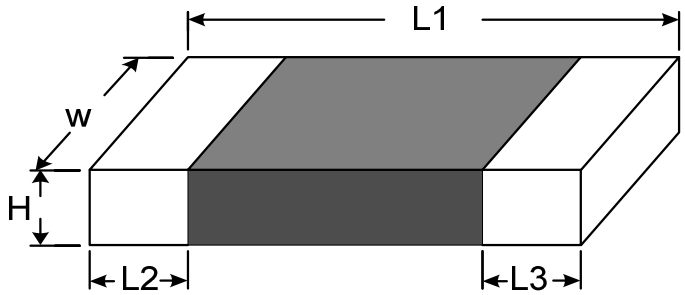
Part Number Code

Example :

SMD RBH 0805 471 - 95 R
(1) (2) (3) (4) (5) (6)

No.	Item	Digit	Specification
(1)	Product Type	SMD	SMD thermistor type
(2)	Sensing	RBH	For over Temperature series
(3)	Size (EIA)	0805	0805
(4)	Zero Power Resistance at 25 ℃	471	$47x10^1$= 470Ω
(5)	Sensing Temperature	95	Ts=95℃
(6)	Packaging	R	Reel

Structure and Dimensions



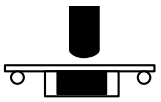
(unit : mm)

L1	W	H max.	L2 and L3
2.00±0.20	1.25±0.20	1.20	0.45±0.25

Electrical Characteristics

Part No.	Sensing Temperature	Resistance Value			Max. Voltage	Operating Temperature Range
	Ts (℃)	25℃ (Ω)	Ts-5℃ (Ω)	Ts+5℃ (Ω)	Vmax (V_{DC})	(℃)
SMDRBH-0805-471-95	95±5	470±50%	≦4,700	≧4,700	32	-25 ~ +90

Reliability

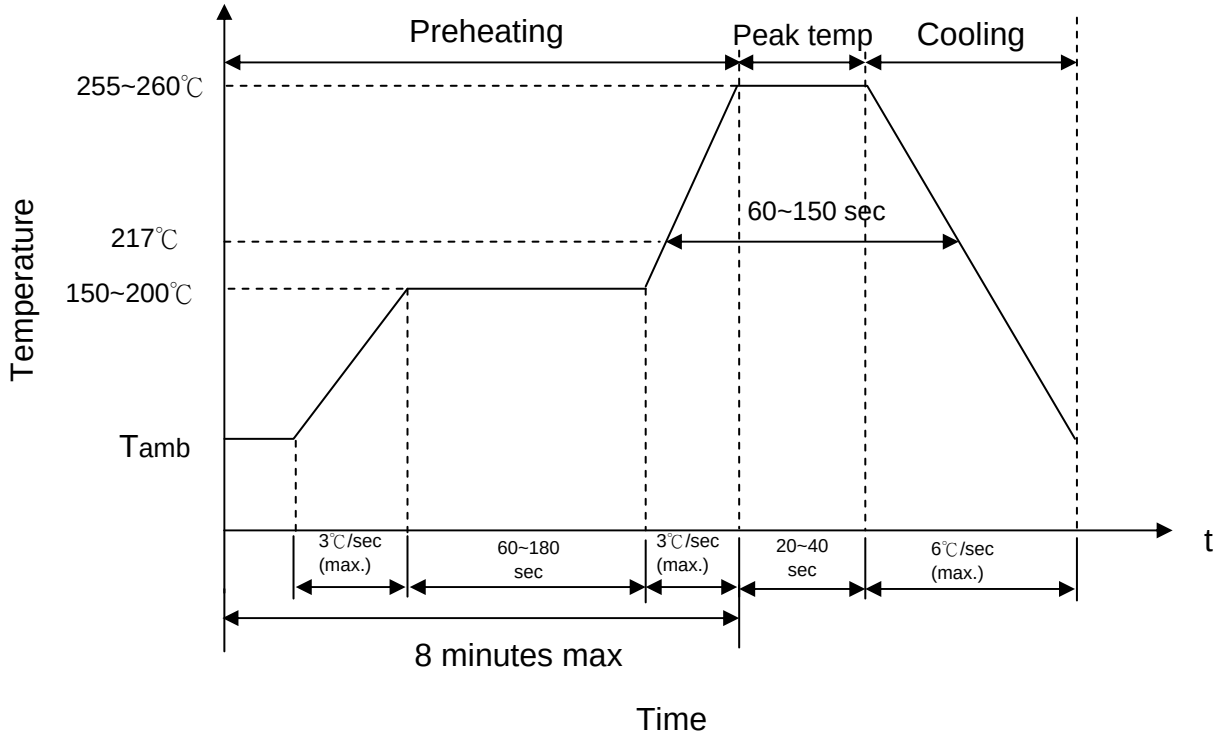
<table>
<tr><th>Item</th><th>Standard</th><th>Test conditions / Methods</th><th>Specifications</th></tr>
<tr><td>Bending Strength</td><td>IEC60068-2-21</td><td>Warp : 2mm ; Speed ＜ 0.5mm/sec.
Duration : 10 sec on PCB. </td><td>No visible damage
｜△R_{25}/R_{25}｜≦ 10 %</td></tr>
<tr><td>Damp Heat, Steady State</td><td>IEC 60068-2-3</td><td>40 ± 2 ℃ , 90 ~ 95% RH , 1000± 24 hrs</td><td>No visible damage
｜△R_{25}/R_{25}｜≦ 20 %</td></tr>
<tr><td>High Temp. Storage</td><td>IEC 60738-1
IEC 60068-2-2</td><td>T_U ± 5 ℃ , 1000 ± 24 hrs</td><td>No visible damage
｜△R_{25}/R_{25}｜≦ 20 %</td></tr>
<tr><td>Rapid Change of Temperature</td><td>IEC 60068-2-14</td><td>The conditions shown below shall be repeated 5 cycles on PCB
<table>
<tr><th>Step</th><th>Temperature (℃)</th><th>Period (minutes)</th></tr>
<tr><td>1</td><td>-25 ± 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 ± 5</td><td>30 ± 3</td></tr>
<tr><td>4</td><td>Room temperature</td><td>5 ± 3</td></tr>
</table></td><td>No visible damage
｜△R_{25}/R_{25}｜≦ 20 %</td></tr>
<tr><td>High Temp. Load</td><td>IEC 60738-1</td><td>85 ± 5 ℃ , Vmax. , 1000 ± 24 hrs</td><td>No visible damage
｜△R_{25}/R_{25}｜≦ 20 %</td></tr>
<tr><td>Climatic Sequence</td><td>IEC 60738-1</td><td>a. T_U x 16 hrs
b. 1st cycle : 40 ℃ 95 %RH x 24 hrs
c. T_L x 2 hrs
d. 5 cycles : 40℃ 95% RH x 24 hrs / Cycle</td><td>No visible damage
｜△R_{25}/R_{25}｜≦ 20 %</td></tr>
<tr><td>Solderability</td><td>IEC 60068-2-58</td><td>245 ± 5 ℃ , 3 ± 0.3 sec</td><td>At least 95% of terminal electrode is covered by new solder</td></tr>
<tr><td>Resistance to Soldering Heat</td><td>IEC 60068-2-58</td><td>260 ± 5 ℃ , 10 ± 1 sec</td><td>No visible damage
｜△R_{25}/R_{25}｜≦ 20 %</td></tr>
</table>

Note: T_L = Minimum operating temperature (℃)

T_U = Maximum operating temperature (℃)

Soldering Recommendation

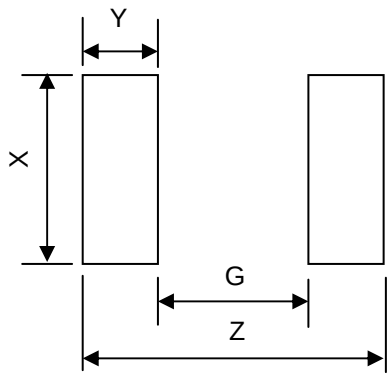
■ IR-Reflow Soldering Profile



■ Recommended Reworking Conditions with Soldering Iron

Item	Conditions
Temperature of Soldering Iron-tip	360℃ (max.)
Soldering Time	3 sec (max.)
Diameter of Soldering Iron-tip	ϕ 3mm (max.)
Caution: Not to touch the component surface with soldering iron directly to prevent component damage.	

Recommended Soldering Pad Dimensions



Size (EIA)	0805
Z	3.4 mm
G	1.0 mm
X	1.4 mm
Y	1.2 mm

RoHS Compliant Declaration

We hereby declare that the components delivered to your company are compliant with RoHS directive 2002/95/EC.

Storage Conditions of Products

(I) Storage Conditions :

1.Storage Temperature : -10℃~+40℃

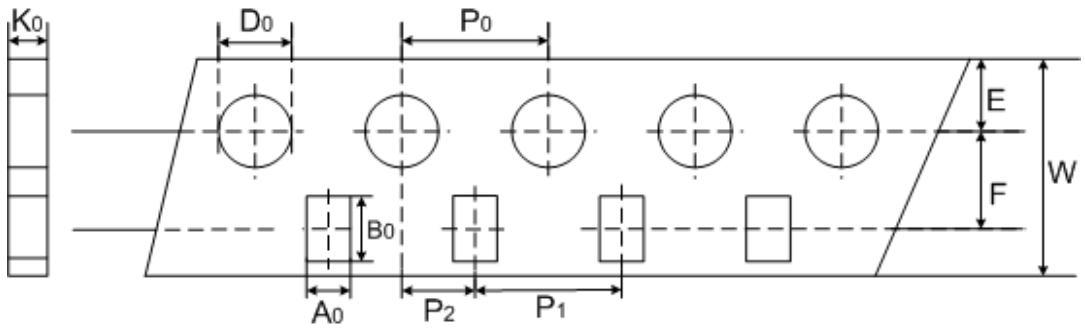
2.Relative Humidity : ≦75%RH

3.Keep away from corrosive atmosphere and sunlight.

(II) Period of Storage : 1 year

Packaging

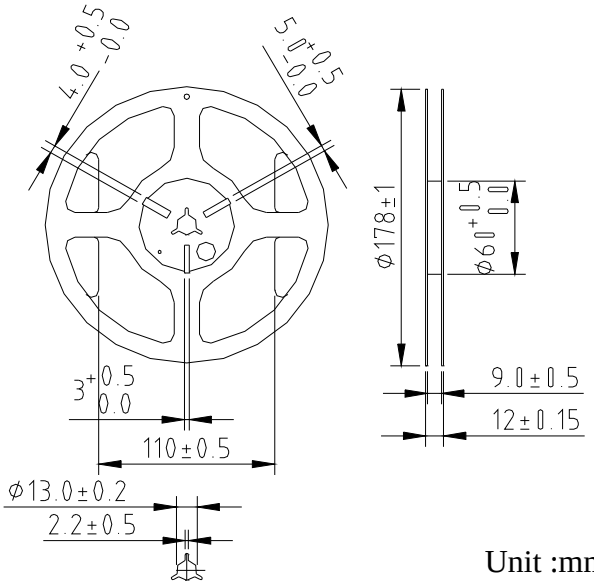
■ Taping Specification (0805 type)



(Unit : mm)

Index / Type	A_0	B_0	W	E	F	P_1	P_2	P_0	D_0	K_0
	±0.2	±0.2	±0.2	±0.1	±0.05	±0.1	±0.05	±0.1	±0.1	±0.1
0805	1.5	2.3	8.0	1.75	3.5	4.0	2.0	4.0	1.55	0.95

■ Quantity (3500 pcs / reel)



Unit :mm

Certificates

(1) TS 16949 certificate
(2) ISO 9001 certificate
(3) QC 080000 certificate

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Test Report

(1) RoHS test report
(2) Halogen-free test report

R-T Characteristic Curve

SMDRBH-0805-471-75

