产品承认书
SPECIFICATION FOR APPROVAL

客户名称:
CUSTOMER

我司料号:
OUR PART NO. **XRCB2012U121-3R0TF**

我司品名:
OUR PART NAME **Ferrite Chip EMI Suppressors**

送样日期:
DATE SAMPLES _____ 数 量:
QUANTITY _____

制造确认 MANUFACTURER APPROVE		
拟制 DRAWN	审核 CHECKED	确认 APPROVED
HuFangting	RaoPing	ZhongCuilan

客户确认 CUSTOMER APPROVE

客户名称 CUSTOMER NAME:

客户料号 CUSTOMER P/N:

规格型号 DESCRIPTION: XRCB2012 (0805) 120R ±25% 3A

检查結果: ☐ 合格 ☐不合格 签名及盖章:

INSPECT RESULT ACCEPT REJECT SIGNATURE AND STAMP

说明 REMARK:

如对本承认书内容有异议请提出或标记发送至我司，本承认书在未收到异议回复时于本承认书提供一周后生效。

If you have any objection to the contents of this acknowledgment, please raise it or send the mark to us. The acknowledgment will become effective one week after the acknowledgment is provided in the absence of any objection.

东莞市祥如电子有限公司

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修订记录 Revision record

日期 Date	修改内容 Modify the content	审核 Checked	确认 Approved
2025/10/29	首次发行First issue	Zhong cuilan	Huang chuangen

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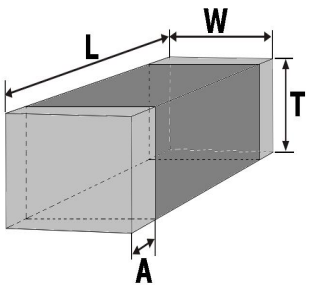
1.DIMENSION： mm



OPERATING TEMP. RANGE : -55℃ ~ +125℃				
STORAGE TEMP. RANGE : -10℃ ~ +40℃				
PART NO.	L	W	T	A
0805	2.0±0.2 (.079±.008)	1.25±0.2 (.049±.008)	0.9+0.15/-0.2 (.035+.006/-.008)	0.2~0.8

2. RATINGS：

PART NO.	IMPEDANCE (Ω) AT 100 MHz 500mV	DC RESISTANCE (Ω) Max	RATED CURRENT (mA) Max
XRCB2012U121-3R0TF	120±25%	0.05	3000

3. SCOPE：

This specification applies to the ACMS-2012 series Ferrite Chip EMI suppressors.

4. STANDARD ATMOSPHERIC CONDITIONS：

. Unless otherwise specified the standard range of atmospheric conditions for making measurements and tests is as follows:

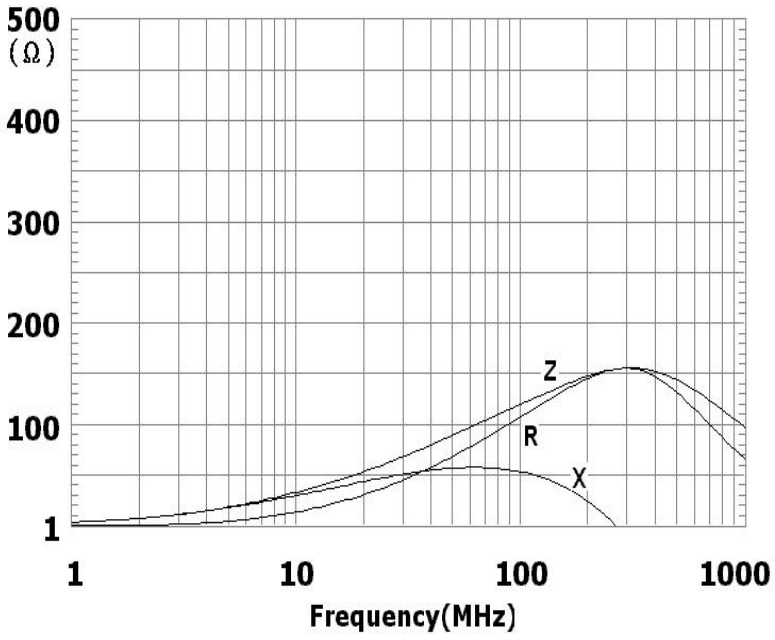
. Ambient temperature : 20±15℃

.Relative humidity: 30~70%

. If there may be any doubt on the results, measurements shall be made within the following limits :

.Ambient temperature : 25±5℃

.Relative humidity : 30~70%



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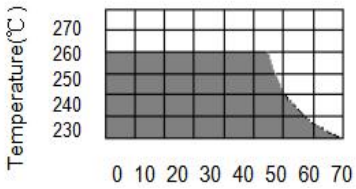
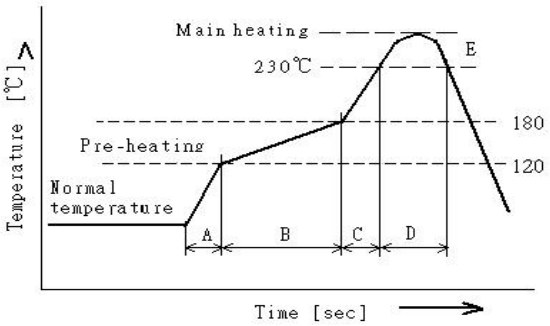
5.Reflow soldering conditions：

.Pre－heating should be in such a way that the temperature difference between solder and ferrite surface is limited to 150℃ max.Also cooling into solvent after soldering should be in such a way that the temperature difference is limited to 100℃ max. Unenough pre－heating may cause cracks on the ferrite, resulting in the deterioration of product quality.

.Products should be soldered within the following allowable range indicated by the slanted line. The excessive soldering conditions may cause the corrosion of the electrode, When soldering is repeated, allowable time is the accumulated time.



6.Temperature Profile：



(Melting area of solder)

A	Slope of temp. rise	1 to 5	℃/sec
B	Heat time	50 to 150	sec
	Heat temperature	120 to 180	℃
C	Slope of temp. rise	1 to 5	℃/sec
D	Time over 230℃	90~120	sec
E	Peak temperature	255~260	℃
	Peak hold time	10 max.	sec
*No. of mounting		3	times

6-1 Reworking with soldering iron：

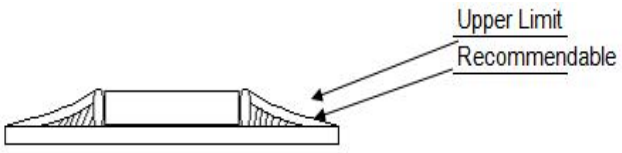
Preheating	150℃, 1 minute
Tip temperature	280℃ max
Soldering time	3seconds max.
Soldering iron output	30w max.
End of soldering iron	∮3mm max.

·Reworking should be limited to only one time.

Note：Do not directly touch the products with the tip of the soldering iron in order to prevent the crack on the ferrite material due to the thermal shock.

6-2 Solder Volume：

Solder shall be used not to be exceed the upper limits as shown below.



Accordingly increasing the solder volume, the mechanical stress to product is also increased. Exceeding solder volume may cause the failure of mechanical or electrical performance.

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7.EQUIPMENT

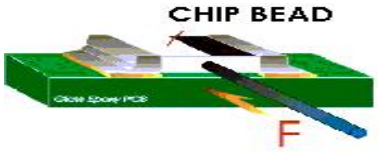
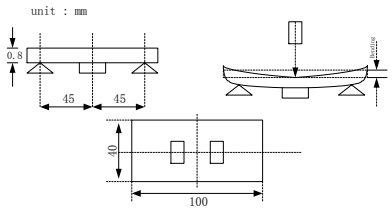
7-1 IMPEDANCE：

Impedance shall be measured with HP－4286A impedance analyzer or equivalent system

7-2 DC RESISTANCE：

DC resistance shall be measured using HP 4338 digital mili－ohm meter with 4 terminal method.

8.MECHANICAL CHARACTERISTICS

ITEM	Specification	TEST CONDITIONS
TERMINAL STRENGTH	Without deformation cases impedance shall be satisfied ± 30% DC resistance shall be satisfied.	Solder chip on PCB and applied 10N (1.02Kgf) for 10 sec. 
Substrate bending test	Without deformation cases, impedance shall be satisfied ± 30% DC resistance shall be satisfied.	After soldering a chip to a test substrate, bend the substrate by 3mm hold for 10s and then return. with the recommended PC board pattern and reflow soldering 
RESISTANCE TO SOLDER HEAT	No visible damage Electrical characteristics and mechanical characteristics shall be satisfied. Consult standard MIL-STD-202 METHOD 210	Solder Temp. : 265±3℃ Immersion time : 6±1 sec Preheating : 100℃ to 150℃, 1 minute. Measurement to be made after keeping at room temp for 24±2 hrs. Solder : Sn-3Ag-0.5Cu
SOLDER－ ABILITY	95% min. coverage of all metabolised area Consult standard J-STD-002	Solder temp. : 240±5℃ Immersion time : 3±1 sec Solder : Sn-3Ag-0.5Cu

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9. RELIABILITY AND TEST CONDITIONS

9-1 HIGH TEMPERATURE RESISTANCE：
a. Performance specification
1.Appearance：no mechanical damage
2.Impedance shall be with ±30％of the initial value
3. DC resistance shall be satisfied
b.Test condition
1.Temperature125℃±2℃
2.Applied current：Rated current(maximum value)
3.Testing time：1008±12hrs
4.Measurement：After placing at room ambient temperature for 24 hours minimum

9-2 HUMIDITY RESISTANCE：
a.Performance specification
1.Appearance：no mechanical damage
2.Impedance:within ±30％ of initial value
3.DC resistance shall be satisfied
b.Test condition
1.Humidity：90 to 95％RH
2.Temperature：60±2℃
3.Applied current：Rated current (maximum value)
4.Testing time：1008±12hours
5.Measurement：After placing at room ambient temperature for 24 hours minimum

9-3 TEMPERATURE CYCLE：
a.Performance specification
1.Appearance：no mechanical damage
2.Impedance:within ±30％ of initial value
3. DC resistance shall be satisfied
b.Test condition
1.Temperature -55℃,+125℃ kept stabilized for 30 minutes each
2.Cycle：100 cycles
3.Measurement：After placing for 24 hours minimum at room ambient temperature
4. step1. -55℃ temp±3℃ 30±3 minutes
step2. Standard atmospheric conditions 5s or less
step3. +125℃ temp±2℃ 30±3 minutes
step4. Standard atmospheric conditions 5s or less

9-4 LOW TEMPERATURE STORAGE LIFE TEST：
a.Performance specification
1.Appearance：no mechanical damage
2.Impedance shall be with ±30％of the initial value
3. DC resistance shall be satisfied
b.Test condition
1.Temperature -55℃±2℃
2.Testing time：1008±12hours
3.Measurement：After placing for 24 hours minimum at room ambient temperature

9-5 THERMAL SHOCK：
a.Performance specification
1.Appearance：no mechanical damage
2.Impedance shall be with ±30％of the initial value
b.Test condition
1.Temperature -55℃,+125℃ kept stabilized for 30 minutes each
2.Cycle：100 cycles
3.Measurement：After placing for24 hours minimum at room ambient temperature

9-6 VIBRATION TEST：
a.Performance specification
1.Appearance：no mechanical damage
2.Impedance shall be with ±30％of the initial value
b.Test condition
1.Waveform:Sine wave
2.Frequency:10~55~10 Hz
3.Sweep time:1min
4.Amplitude:1.5mm(peak-peak)
5.Direction:X,Y,Z(3 axes)
6.Duration:2 hrs./axis,total 6 hrs.

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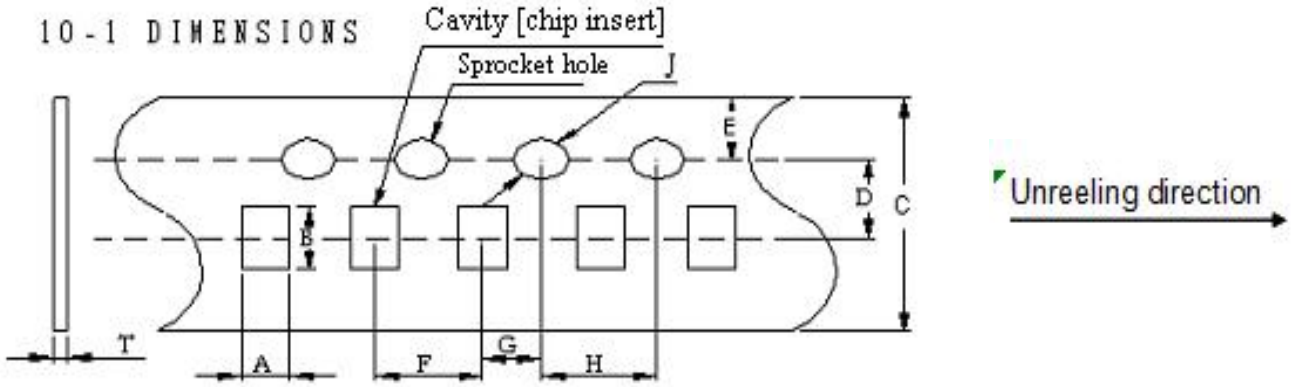
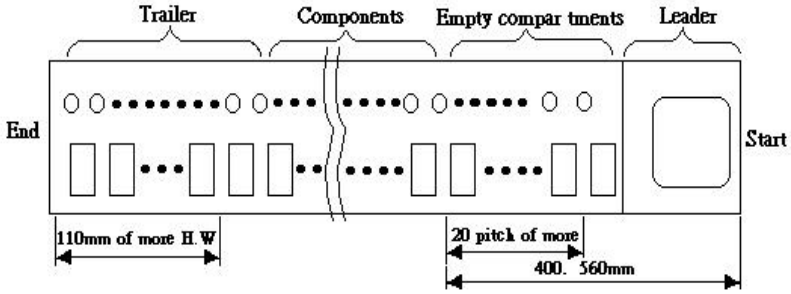
10. PAPER CARRIER TAPE PACKAGING：

10-1 DIMENSIONS

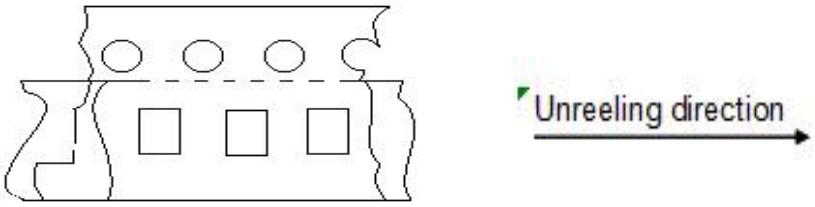


A	B	C	D	E	F	G	H	J	T
1.45±0.05	2.25±0.05	8.0±0.1	3.5±0.05	1.75±0.1	4.0±0.1	2.0±0.05	4.0±0.1	1.55±0.05	0.95±0.05

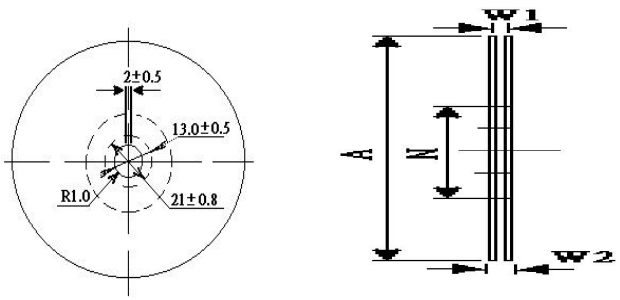
10-2 LEADER AND TRAILER TAPE：



10-3 DIRECTION THE DIRECTION SHALL BE SEEN FROM THE TOP OF COVER TAPE：



10-4 REELS：



UNIT:mm

A	178 ±2.0
N	50 MIN
W1	10 ±1.5
W2	20 MAX

PACKING QTY.
4,000 PCS REEL

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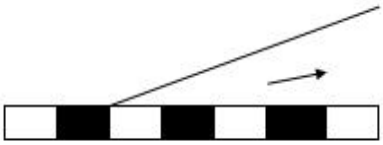
10-5 PEELING STRENGTH OF COVER TAPE：

Cover tape	(10g~100g)

165°~180°



Test condition：
1) peel angle：165°~180° vs carrier tape
2) peel speed：300mm/min

11.PACKAGING：
1) Tape & Reel packaging in composite specification 6/8
2) Reel and a bag of desiccant shall be packed in Nylon or plastic bag
3) Maximum of 5 bags shall be packaged in a inner box
4) Maximum of 6 inner box shall be packaged in a outer box

12.Reel Label：
Producing the goods label needs to indicate (1) Pb Free (2) RoHS Compliant

13. STORAGE：
13-1The solderability of the external electrode may be deteriorated if packages are stored where they are exposed to high humidity. Packages must be stored at 40℃ or less and 70％RH or less.

13-2 The solderability of the external electrode may be deteriorated if packages are stored where they are exposed to dust or harmful gas (hydrogen chloride, sulfurous acid gas or hydrogen sulfide).

13-3 Packaging material may be deformed if packages are stored where they are exposed to heat or direct sun－ light.

13-4 Minimum packages, such as polyvinyl heat－seal packages shall not be opened until just before they are used. If opened, use the reels as soon as possible.

13-5 Solderability specified in composite specification 4/8 shall be for 6 months from the date of delivery on condition that they are stored at the environment specified clause 13-1 & 13-2. For those parts which passed more than 6 months shall be checked solderability before it is used.