

COMPONENT SPECIFICATION

版次:第2.0版

Name	Ferrite Chip EMI Suppressors	COMPOSITE SPECIFICATION		1/
		SPEC#	BCHS565036I601 8A	/ 8

1. Scope

This specification applies to the BCHS-5650 series Ferrite Chip EMI suppressors.

2. Standard and Atmospheric Conditions

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

Ambient temperature : $20\pm15^{\circ}$ C Relative humidity : $30\sim70\%$

If there may be any doubt on the results, measurements shall be made within

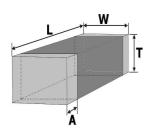
the following limits:

Ambient temperature : 25±5°C Relative humidity : 30~70%

3. Ratings

			*	
PART NO	IMPEDANCE (Ω)	DC RESISTANCE	RATED CURRENT	
	AT100 MHz 500mV	(Ω) Max	(mA) Max	
BCHS565036I601 8A	600±25%	0.01	8000	

4. Dimensions



unit: mm (inch) OPERATING TEMP. RANGE : -55° C ~ $+125^{\circ}$ C STORAGE TEMP. RANGE : -40° C ~ $+85^{\circ}$ C

TYPE L		W	T	Α
BCHS-5650	5.59±0.51	5.08±0.25	3.61±0.25	0.51~1.01
BC115-3030	(0.22±0.02)	(0.2±0.01)	(0.142±0.01)	(0.02~0.04)

5. The Place of Origin:

Taichung, Taiwan

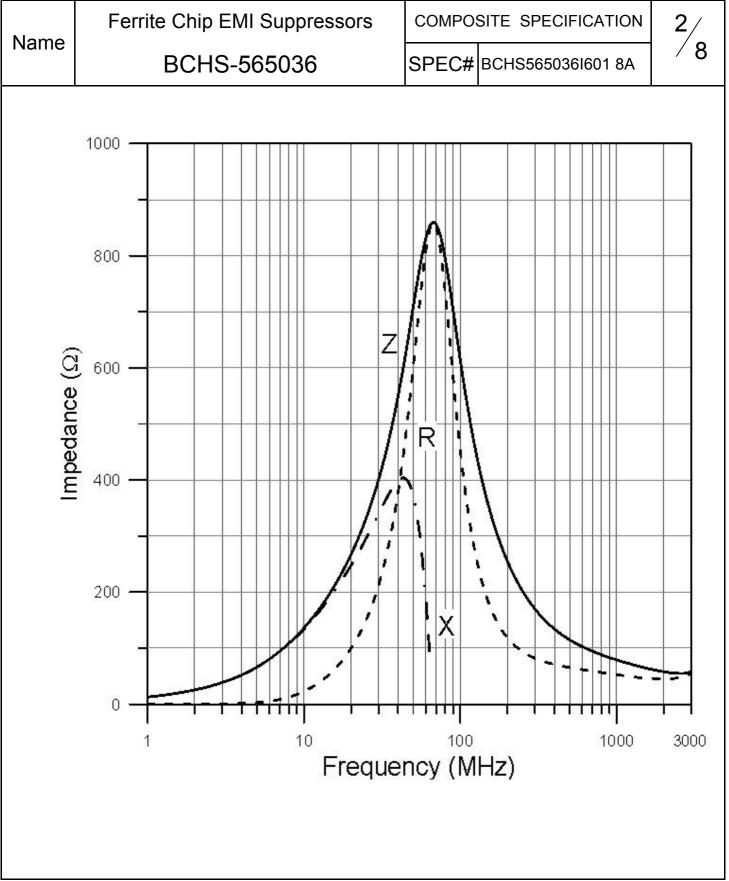
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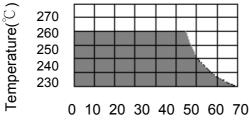
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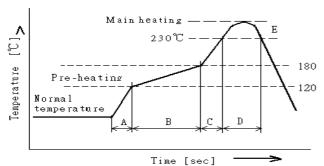
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6. Reflow soldering conditions

- Pre—heating should be in such a way that the temperature difference between solder and ferrite surface is limited to 150°C max. Also cooling into solvent after soldering should be in such a way that the temperature difference is limited to 100°C max.
 Insufficient 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.



Temperature Profile



A	Slope of temp. rise	1 to 5	°C/sec	
В	Heat time	50 to 150	sec	
Ь	Heat temperature	120 to 180	$^{\circ}\!\mathbb{C}$	
С	Slope of temp. rise	1 to 5	°C/sec	
D	Time over 230℃	90~120	sec	
Е	Peak temperature	255~260	$^{\circ}\!\mathbb{C}$	
E	Peak hold time	10 max.	sec	
	No. of mounting	3	times	

(Melting area of solder)

6-1 Reworking with soldering iron

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

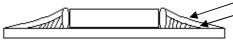
• Reworking should be limited to only one time.

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.

Upper Limit
Recommendable



When solder volume is increased, 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	Terminal strength does not distort	Solder chip on PCB and applied 10N		
Strength	the case shall meet SPEC DC	(1.02Kgf) for 10 sec		
3.3.3	resistance specifications.	CHIP		
		Clické Spore PCB		
Substrate	SPEC substrate bending test DC	After soldering a chip to a test substrate,		
Bending Test	resistance shall meet	bend the substrate by 3mm hold for 10s		
	specifications.	and then return.		
		Soldering shall be done in accordance		
		with the recommended PC board pattern		
		and reflow soldering.		
		unit : mm 0.8 45 45 100		
Resistance	No visible damage	Solder Temp. : 265±3°C		
to Solder Heat	Electrical characteristics and	Immersion time : 6±1 sec		
	mechanical characteristics shall be satisfied.	Preheating : 100°C to 150°C, 1 minute.		
	Satisfied.	Measurement to be made after keeping at room		
	Consult standard MIL-STD-202	temp for 24±2 hrs.		
	METHOD 210	Solder : Sn-3Ag-0.5Cu		
Solderability	95% min. coverage of all	Solder temp. : 240±5°C		
	metabolised area	Immersion time: 3±1 sec		
		Solder : Sn-3Ag-0.5Cu		
	Consult standard J-STD-002			



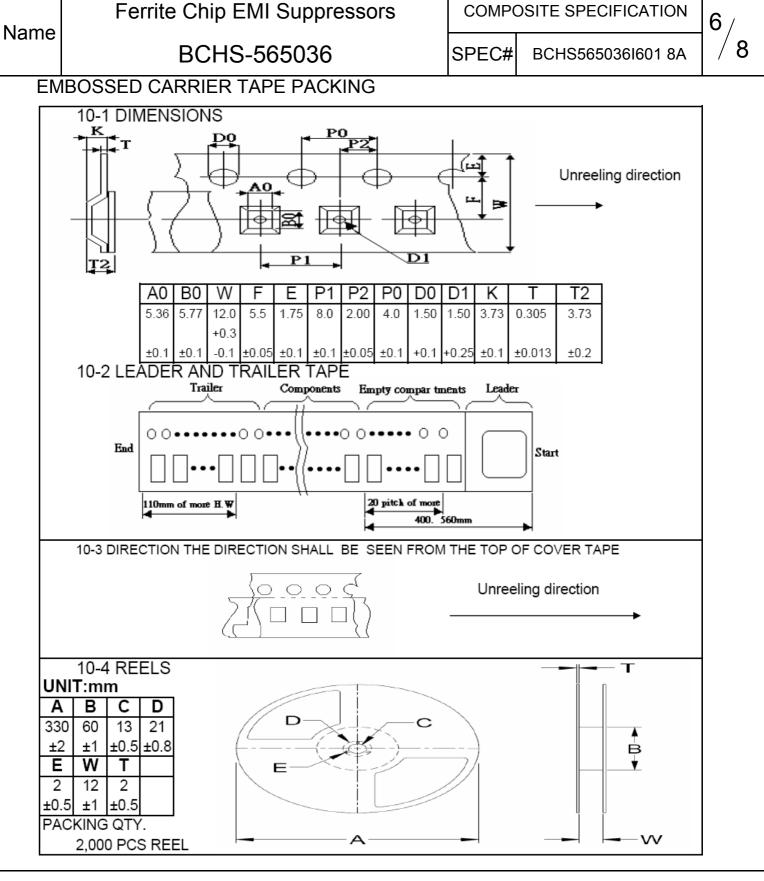
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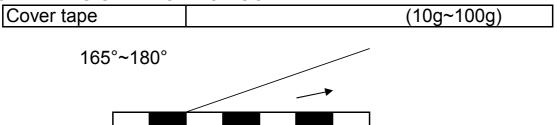


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10-5 PEELING STRENGTH OF COVER TAPE



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 reels 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



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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°C 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.

14. Quality System

- ISO/IATF16949
- IECQ QC 080000

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