

Lead-Free & RoHs Compliance!!

SPECIFICATION FOR APPROVAL

CUSTOMER :	立创
CUSTOMER :	立包

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CUSTOMER P/N : C2913981

OUR DWG No:

QUANTITY :

Pcs. DATE:

2021/11/5

ITEM :

SBY060303T-241Y-N

	SPECIFICATION			
ACCEPTED BY:				
COMPONENT				
ENGINEER				
ELECTRICAL				
ENGINEER				
MECHANICAL				
ENGINEER				
APPROVED				
REJECTED				

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SBY060303T Series Specification

1 Scope: This s	1 Scope: This specification applies to MULTILAYER FERRITE CHIP BEADS							
 Scope: This specification applies to MULTILAYER FERRITE CHIP BEADS Part Numbering: Product Identification								
4 Marking:	$-~5~{ m \circ C} \sim 4~~0~{ m \circ C}$,Humidit		Dre PCDJ					
No Markir	No Marking							
5 Standard Testing Condition								
		In case of doubt	1					
	Unless otherwise specified							
Temperature	Ordinary Temperature(15 to 35℃)	20±2 ℃						
Temperature Humidity								



SBY060303T Series Specification

6 Configuration and Dimensions:

7 ELECTRICAL CHARACTERISTICS :

В

Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.	
SBY060303T-241□-N	240	100 MHz,200 mV	0.8	100	

NOTE: \Box -tolerance Y=±25% / T=±30% / V=±5 Ω

1.Operating temperature range - $5\,$ 5 $^\circ\!{\rm C}\!\sim\!1\,$ $2\,$ 5 $^\circ\!{\rm C}($ Including self - temperature rise)

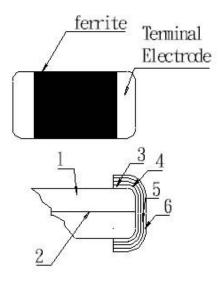
2.Rate Current : Applied the current to coils, the temperature rise shall not be more than 30 $^\circ\!\mathbb{C}$

"-N" FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)



SBY060303T Series Specification





8.2 Material List:

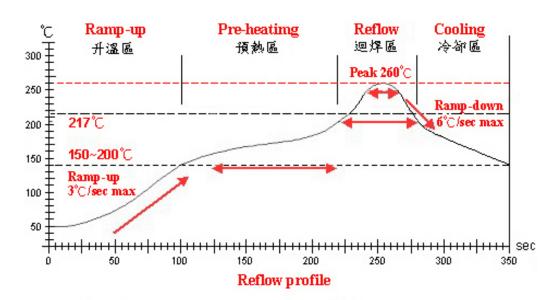
NO	PART	MATERIAL		
1	Ferrite Substance	NiO-CuO-ZnO-Ferrit		
2	Silver electrode	Ag		
3	Silver electrode	Ag		
4	Cu plating	Cu		
5	Ni plating	Ni		
6	Sn plating	Sn		



SBY060303T Series Specification

9 Reliability Of Ferrite Multilayer Chip Bead

No	Item Specification Test Method							
1-1-1	Flexure Strength	The forces applied on the right	ght Test device shall be soldered on the substrate					
	_	conditions must not damage	Substrate Dimension: 100x40x1.6mm					
		the terminal electrode and the	-					
		ferrite						
			*For 100505, substrate dimension is 100x40x0.8					
1-1-2	Vibration		Test device shall be soldered on the substrate					
· · -			ation Frequency: 10 to 55 to 10Hz for 1					
			Amplitude: 1.5mm Time: 2hrs for each axis (X, Y & Z), total 6hrs					
1_1_3	Resistance to Soldering Heat	Appearance: No damage		eating: 150° C, 1min	,			
1-1-5	Resistance to Soldening heat			0	0)			
			Solder Composition: Sn/Ag3.0/Cu0.5(Pb-Free) Solder Temperature: 260±5°C					
		electrode should be covered with solder.		rsion Time: 10±1sec				
			Imme	sion time. TOETSec				
		Impedance : within ±30% of						
	O a lala an a bilite a	initial value The electrodes shall be at						
1-1-4	Solder ability			eating: 150°C, 1min				
		least 95% covered with new		Composition: Sn/Ag3.0/Cu0.5(Pb-Fre	e)			
		solder coating		r Temperature: 245±5℃(Pb-Free)				
			Immersion Time: 4±1sec					
1 1 5	Terminal Strength Test	No split termination	Test device shall be soldered on the substrate,					
1-1-5	Terminal Strength Test	-						
		Chip	then apply a force in the direction of the a Force : 5N					
		F F						
			Keeping Time: 10±1sec					
		Mounting Pad						
1-2 F	nvironmental Performanc	Mounting Pad						
	Environmental Performanc	e		Test Method				
No	ltem	e Specification	One c	Test Method				
No		e Specification Appearance: No damage	One c	ycle:	Time (min)			
No	ltem	e Specification Appearance: No damage Impedance: within±30% of	Step	ycle: Temperature (℃)				
No	ltem	e Specification Appearance: No damage	Step 1	ycle: Temperature (℃) -55±3	30			
No	ltem	e Specification Appearance: No damage Impedance: within±30% of	Step 1 2	ycle: Temperature (℃) -55±3 25±2	30 3			
No	ltem	e Specification Appearance: No damage Impedance: within±30% of	Step 1 2 3	ycle: Temperature (℃) -55±3 25±2 125±3	30 3 30			
No	ltem	e Specification Appearance: No damage Impedance: within±30% of	Step 1 2 3 4	ycle: Temperature (℃) -55±3 25±2 125±3 25±2	30 3			
No	ltem	e Specification Appearance: No damage Impedance: within±30% of	Step 1 2 3 4 Total:	ycle: Temperature (°C) -55±3 25±2 125±3 25±2 100cycles	30 3 30 3			
No 1-2-1	Item Temperature Cycle	e Specification Appearance: No damage Impedance: within±30% of	Step 1 2 3 4 Total: Measu	ycle: Temperature (°C) -55±3 25±2 125±3 25±2 100cycles ured after exposure in the room condition	30 3 30 3			
No 1-2-1	ltem	e Specification Appearance: No damage Impedance: within±30% of	Step 1 2 3 4 Total: Measu Temp	ycle: Temperature (°C) -55±3 25±2 125±3 25±2 100cycles ured after exposure in the room conditionerature: 40±2°C	30 3 30 30 50 for 24hrs			
No 1-2-1	Item Temperature Cycle	e Specification Appearance: No damage Impedance: within±30% of	Step 1 2 3 4 Total: Measu Temp Relati	ycle: Temperature (°C) -55±3 25±2 125±3 25±2 100cycles ured after exposure in the room condition erature: 40 ± 2 °C we Humidity: 90 ~ 95% / Time: 1000hrs	30 3 30 3 50n for 24hrs			
No 1-2-1 1-2-2	Item Temperature Cycle Humidity Resistance	e Specification Appearance: No damage Impedance: within±30% of	Step 1 2 3 4 Total: Measu Temp Relatir Measu	ycle: Temperature (°C) -55±3 25±2 125±3 25±2 100cycles ured after exposure in the room conditioner erature: 40±2°C ve Humidity: 90 ~ 95% / Time: 1000hrs ured after exposure in the room conditioner ured after exposure in the room condit	3 30 3 on for 24hrs on for 24hrs			
No 1-2-1 1-2-2	Item Temperature Cycle Humidity Resistance High	e Specification Appearance: No damage Impedance: within±30% of	Step 1 2 3 4 Total: Measu Temp Relati Measu Temp	ycle: Temperature (°C) -55±3 25±2 125±3 25±2 100cycles ured after exposure in the room condition erature: 40 ± 2 °C ve Humidity: 90 ~ 95% / Time: 1000hrs ured after exposure in the room condition erature: 125±3°C / Relative Humidity: 0	30 3 30 30 50n for 24hrs 50n for 24hrs %			
No 1-2-1 1-2-2	Item Temperature Cycle Humidity Resistance	e Specification Appearance: No damage Impedance: within±30% of	Step 1 2 3 4 Total: Measu Temp Relatir Measu Temp Applie	ycle: Temperature (°C) -55±3 25±2 125±3 25±2 100cycles ured after exposure in the room condition erature: 40 ± 2 °C ve Humidity: 90 ~ 95% / Time: 1000hrs ured after exposure in the room condition erature: 125 ± 3 °C / Relative Humidity: 0 vd Current: Rated Current /Time: 1000hr	30 3 30 30 50n for 24hrs 50n for 24hrs %			
No 1-2-1 1-2-2 1-2-3	Item Temperature Cycle Humidity Resistance High Temperature Resistance	e Specification Appearance: No damage Impedance: within±30% of	Step 1 2 3 4 Total: Measu Temp Relativ Measu Temp Applie Measu	ycle: Temperature ($^{\circ}$ C) -55±3 25±2 125±3 25±2 100cycles ured after exposure in the room condition erature: 40±2 $^{\circ}$ C we Humidity: 90 ~ 95% / Time: 1000hrs ured after exposure in the room condition erature: 125±3 $^{\circ}$ C / Relative Humidity: 0 of Current: Rated Current /Time: 1000hr ured after exposure in the room condition after exposure in the room condition of Current: Rated Current /Time: 1000hr ured after exposure in the room condition after exposure in the room condition	30 3 30 30 50n for 24hrs 50n for 24hrs %			
No 1-2-1 1-2-2	Item Temperature Cycle Humidity Resistance High Temperature Resistance Low	e Specification Appearance: No damage Impedance: within±30% of	Step 1 2 3 4 Total: Measu Temp Relati Measu Temp Applie Measu Temp	ycle: Temperature ($^{\circ}$ C) -55±3 25±2 125±3 25±2 100cycles ured after exposure in the room conditioner erature: 40±2 $^{\circ}$ C we Humidity: 90 ~ 95% / Time: 1000hrs ured after exposure in the room conditioner erature: 125±3 $^{\circ}$ C / Relative Humidity: 0 of Current: Rated Current /Time: 1000hr ured after exposure in the room conditioner erature: -55±3 $^{\circ}$ C	30 3 30 30 50n for 24hrs 50n for 24hrs %			
No 1-2-1 1-2-2 1-2-3	Item Temperature Cycle Humidity Resistance High Temperature Resistance	e Specification Appearance: No damage Impedance: within±30% of	Step 1 2 3 4 Total: Measu Temp Relatin Measu Temp Relatin Relatin Relatin Relatin	ycle: Temperature ($^{\circ}$ C) -55±3 25±2 125±3 25±2 100cycles ured after exposure in the room condition erature: 40±2 $^{\circ}$ C we Humidity: 90 ~ 95% / Time: 1000hrs ured after exposure in the room condition erature: 125±3 $^{\circ}$ C / Relative Humidity: 0 of Current: Rated Current /Time: 1000hr ured after exposure in the room condition after exposure in the room condition of Current: Rated Current /Time: 1000hr ured after exposure in the room condition after exposure in the room condition	30 3 30 30 50 for 24hrs 50 for 24hrs % srs 50 for 24hrs			



Lead-Free(LF)標準溫度分析範圍

Refer to J-STD-020C

管制項目 Item.	升溫區 Ramp-up	預熱區 Pre-heatimg	迴焊區 Reflow	Peak Temp	冷卻區 Cooling
溫度範圍 Temp.scope	R.T. ~150° ℃	150°C ~ 200°C	21 7℃	260±5° C	Peak Temp. ~ 150℃
標準時間 Time spec.		60 ~ 180 sec	60 ~ 150 <i>s</i> ec	20 ~ 40 sec	—
實際時間 Time result	<u> </u>	75 ~ 100 sec	90 ~ 120 sec	20 ~ 35 sec	_

NOTE :

1. Re-flow possible times : within 2 times

2. Nitrogen adopted is recommended while in re-flow

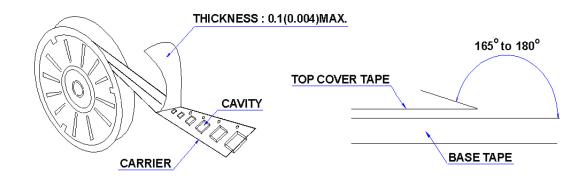


SBY060303T Series Specification

11 PACKAGING

11.1 Packaging -Cover tape

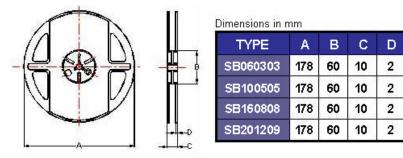
The force for tearing off cover tape is 10 to 100 grams in the arrow direction.



11.2 Packaging Quantity

TYPE	BULK	PCS/REEL
SB060303	*	15000
SB100505	*	10000
SB160808	*	4000
SB201209	*	4000

11.3 Reel Dimensions

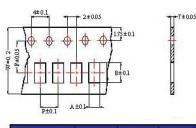


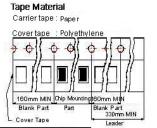


SBY060303T Series Specification

11 PACKAGING

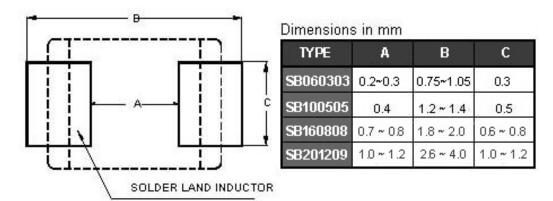
11.4 Tape Dimensions in mm





TYPE	Α	В	т	W	Р	F
SB060303	0.38	0.67	0.45	8	2	3.5
SB100505	0.65	1.15	0.60	8	2	3.5
SB160808	1.05	1.85	0.95	8	4	3.5
SB201209	1.50	2.30	0.97	8	4	3.5

12 Recommended Pattern



13 Note:

- 1. Please make sure that your product is has been evaluated and confirmed against your specifications when our product is mounted to your product.
- 2. Do not knock nor drop.
- 3. All the items and parameters in this product specification have been prescribed on the premise that our product is used for the purpose, under the condition and in the environment agreed upon between you and us. You are requested not to use our product deviating from such agreement.
- 4. Please keep the distance between transformer/coil and other components (refer to the standard IEC 950)