

YAGEO CORPORATION

Lead-Free & RoHs Compliance!!

SPECIFICATION FOR APPROVAL

CUSTOMER : YAGEO

CUSTOMER P/N : _____

OUR DWG No : CE1-980321

QUANTITY : _____ **Pcs.** **DATE :** _____

ITEM : FB863226T-Y7-N

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

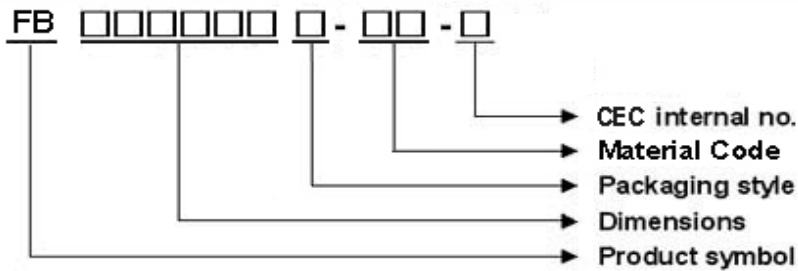
DRAWN BY HEBE	CHECKED BY JERRY	APPROVED BY JERRY
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FB863226T Series Specification

1 Scope: This specification applies to Shielded Beads

2 Part Numbering: Product Identification



3 Rating:

Operating Temperature: $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$

Storage Temperature: Under 25°C , **Humidity < 75% RH**

4 Marking:

No Marking

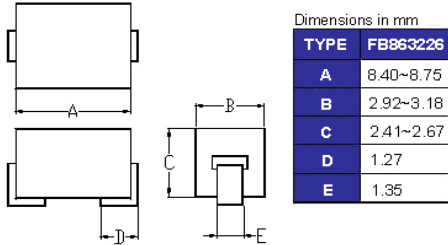
5 Standard Testing Condition

	Unless otherwise specified	In case of doubt
Temperature	Ordinary Temperature(15 to 35°C)	$20 \pm 2^{\circ}\text{C}$
Humidity	Ordinary Humidity(25 to 85% RH)	60 to 70% RH

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FB863226T Series Specification

6 Configuration and Dimensions:



7 ELECTRICAL CHARACTERISTICS :

Part No.	Z (Ω)	Z (Ω)	Test Freq (MHz)	RDC (mOHM)	Rated Current (MAX)
FB863226T-Y7-N	48-0	72-0	25 / 100	5MAX	10A

NOTE:

1. Operating temperature range - 25°C ~ 85°C

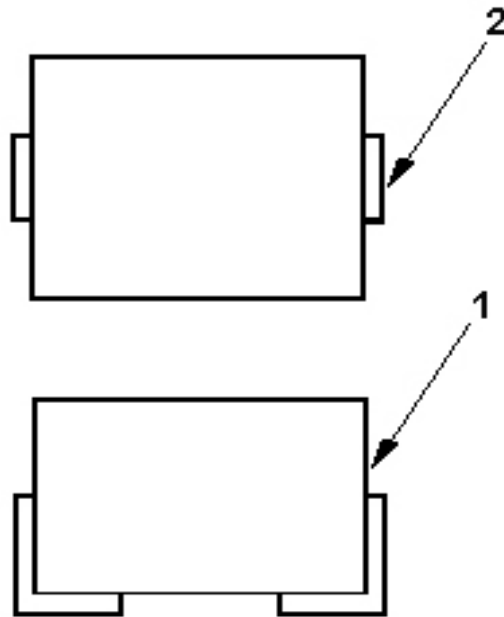
"-N" FOR COMPLETELY LEAD FREE TYPE (INCLUDING FERRITE BODY & SOLDER)

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FB863226T Series Specification

8 FB863226T Series

8.1 Construction:



8.2 Material List:

NO	PART	MATERIAL
1	CORE	Ni-Zn
2	TERMINAL	TERMINAL COPPER

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FB863226T Series Specification

9 Reliability Of EMI SHIELD BEADS(FB SERIES)

1-1.Mechanical Performance

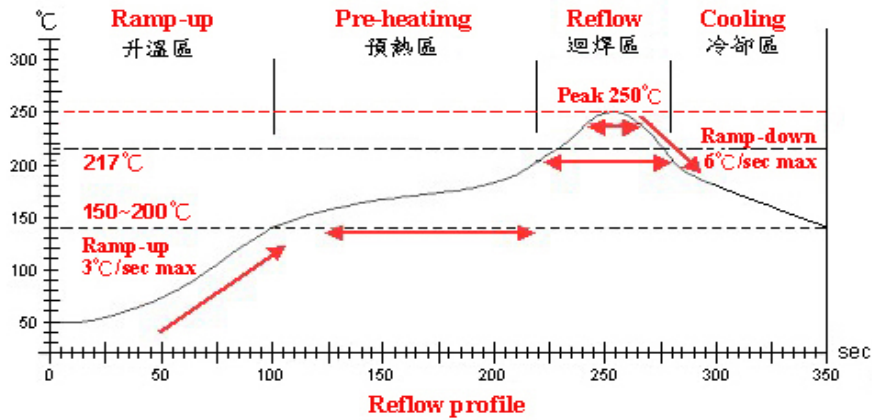
	Item	Specification	Test Method
1-1-1	Vibration	Appearance: No damage Impedance: within $\pm 20\%$ of initial value	Test device shall be soldered on the substrate Oscillation Frequency: 10 to 55 to 10Hz for 1min Amplitude: 1.5mm Time: 2hrs for each axis (X, Y & Z), total 6hrs

1-2.Environmental Performance

No	Item	Specification	Test Method		
1-2-1	Temperature Cycle	Appearance: No damage Impedance: within $\pm 20\%$ of initial value	One cycle:		
			Step	Temperature ($^{\circ}$ C)	Time (min)
			1	-25 ± 3	30
			2	25 ± 2	3
			3	85 ± 3	30
4	25 ± 2	3			
			Total: 100cycles		
			Measured after exposure in the room condition for 24hrs		
1-2-2	Humidity Resistance		Temperature: $40\pm 2^{\circ}$ C Relative Humidity: 90 ~ 95% Time: 1000hrs Measured after exposure in the room condition for 24hrs		
1-2-3	High Temperature		Temperature: $85\pm 3^{\circ}$ C Relative Humidity: 0% Time: 1000hrs Measured after exposure in the room condition for 24hrs		
1-2-4	Low Temperature		Temperature: $-25\pm 3^{\circ}$ C Relative Humidity: 0% Time: 1000hrs Measured after exposure in the room condition for 24hrs		

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FB863226T Series Specification



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-heating	迴焊區 Reflow	Peak Temp	冷卻區 Cooling
溫度範圍 Temp.scope	R.T. ~ 150°C	150°C ~ 200°C	217°C	250±5°C	Peak Temp. ~ 150°C
標準時間 Time spec.	—	60 ~ 180 sec	60 ~ 150sec	20 ~ 40 sec	—
實際時間 Time result	—	60 ~ 95 sec	75 ~ 95 sec	20 ~ 35 sec	—

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FB863226T Series Specification

10 TEST DATA FOR PREPRODUCTION SAMPLES

QF-1419

DESCRIPTION: FB863226T-Y7-N

MEAS. Item	Z (Ω)	Z (Ω)	RDC (mOHM)	A m/m	B m/m	C m/m	D m/m	E m/m			
Spec	Customer										
	Suggest	48-0	72-0	5MAX	8.40~8.75	2.92~3.18	2.41~2.67	1.27REF	1.35REF		
	Test Freq. (MHz)	25	100								
	1	56.00	94.00	2.62	8.54	3.04	2.50	1.28	1.28		
	2	58.00	95.00	2.58	8.61	3.05	2.55	1.35	1.27		
	3	57.00	96.00	2.73	8.59	3.06	2.54	1.34	1.26		
	4	59.00	97.00	2.28	8.58	3.08	2.56	1.29	1.29		
	5	55.00	98.00	2.75	8.59	3.09	2.55	1.33	1.30		
	6										
	7										
	8										
	9										
	10										
	11										
	12										
	13										
	14										
	15										
	X	57.00	96.00	2.59	8.58	3.06	2.54	1.32	1.28		
	R	4.00	4.00	0.47	0.07	0.05	0.06	0.07	0.04		
	CUSTOMER										
	SAMPLE										

TEST INSTRUMENT:

Z: HP4286A or HP4287A

APPEARANCE AND DIMENSIONS :

SPEC : MEET ITEM 6.

TEST METHOD : VISUAL INSPECTION AND MEASURED WITH SILDE CALIPERS.

TESTING CONDITIONS :

	Unless otherwise specified	In case of doubt
Temperature	Ordinary Temperature (15 to 35°C)	20 ± 2 °C
Humidity	Ordinary Humidity (25 to 85 %RH)	60 to 70 %RH

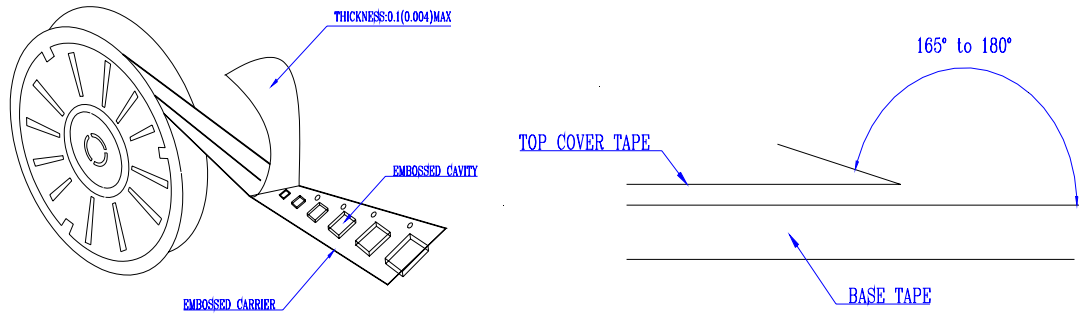
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11 PACKAGING

11.1 Packaging -Cover tape

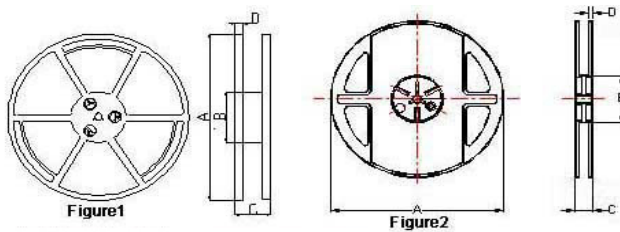
The force for tearing off cover tape is 10 to 130 grams in the arrow direction.



11.2 Packaging Quantity

TYPE	BULK	PCS/REEL
FB423226	✓	500
FB784729	✓	500
FB863226	✓	500
FB865626	✓	2400

11.3 Reel Dimensions



Reel Dimension : m/m

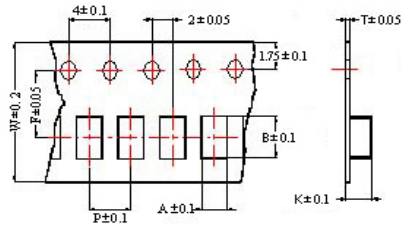
TYPE	Fig	A	B	C	D
FB423226	2	178	60	16	1.5
FB784729	2	178	60	20	1.5
FB863226	2	178	60	20	1.5
FB865626	1	330	100	21	2.0

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FB863226T Series Specification

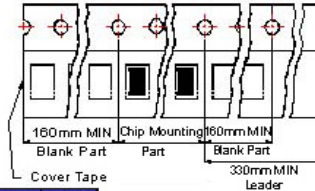
11 PACKAGING

11.4 Tape Dimensions in mm



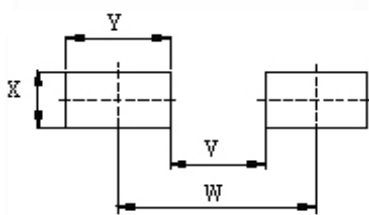
Tape Material

Carrier tape : polystyrene
Cover tape : polyethylene



TYPE	A	B	T	W	P	F	K
FB423226	3.64	5.30	3.10	12	8	5.5	0.30
FB784729	5.24	8.77	3.69	16	8	7.5	0.30
FB863226	3.28	9.35	3.06	16	8	7.5	0.30
FB866626	6.30	9.30	3.10	16	8	7.5	0.27

12 Recommended Pattern



Dimensions in mm

TYPE	V (mm)	W (mm)	X (mm)	Y (mm)
FB423226	1.0	4.0	1.8	3.0
FB784729	5.0	8.0	1.8	3.0
FB863226	4.5	7.5	1.8	3.0

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)

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FB863226T Series Specification

13 Note:

5.Storage and Handling Requirements

(1)Storage period

Use the products within 12 months after delivered

Solderability should be checked if this period is exceeded

(2)Storage conditions

*Products should be stored in the warehouse on the following conditions

Temperature: $-10^{\circ}\text{C} \sim 40^{\circ}\text{C}$

Humidity : 30% ~ 70% relative humidity no rapid change on temperature and humidity

The electrode of the products is coated with solder. Don't keep products in corrosive gases such as sulfur, chlorine gas or acid, or it may cause oxidization of electrode, resulting in poor solderability.

*Products should not be stored on bulk packaging condition to prevent the chipping of the core and the breaking of winding wire caused by the collision between the products.

*Products should be stored on the palette for the prevention of the influence from humidity, dust and so on.

*Products should be stored in the warehouse without heat shock, vibration, direct sunlight and so on.

(3)Handling Condition

Care should be taken when transporting or handling product to avoid excessive vibration or mechanical shock.

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FB863226T Series Specification

14 Curve:

