

寶 號
CUSTOMER

MARITEX

HF
ROHS
COMPLIANT

承 認 書

SPECIFICATION FOR APPROVAL

品名
PRODUCT NAME BSF0603SMSE330MT

客戶料號
CUSTOMER PART NO.

批號
SAMPLE
NO.

日期
DATE. 2021/5/4

Customer Approved Status 客戶承認範圍

FULLY APPROVED (全部承認)	PARTILLY APPROVED (部份承認)	REVISE APPROVED (修訂承認)
Drawn by	Checked by	Approved by
陳雯欣	吳明珠	吳炳勳



KING CORE ELECTRONICS INC.

NO 269, Nanfong Rd., Pingjhen City, Taoyuan County Taiwan

Tel: 886-3-4698855 Fax: 886-4691395

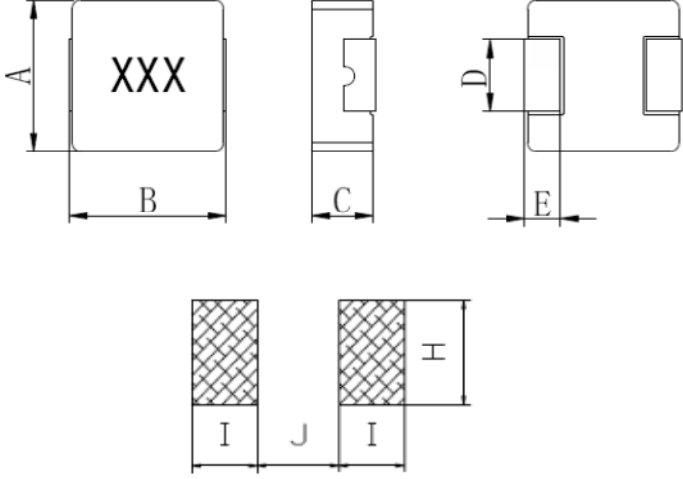
Website: [http:// www.kingcore.com. tw](http://www.kingcore.com.tw)

E-mail: [kc@mail.kingcore.com. tw](mailto:kc@mail.kingcore.com.tw)

修訂履歷 REVISION RESUME

日期 DATE	版次 VERSION	修訂目的 PURPOSE	修訂內容概述 REVISION DESCRIPTION	備註 REMARK
2021/5/4	A	首次送樣 INITIAL RELEASE		
製作 DRAWN BY: <div style="text-align: center;">陳雯欣</div>		確認 CHECKED BY: <div style="text-align: center;">吳明珠</div>		承認 APPROVED BY: <div style="text-align: center;">吳炳勳</div>

SPECIFICATION FOR APPROVAL

CUSTOMER:	MARITEX	CUST.P/N:																														
ORDERING CODE:	BSF0603SMSE330MT	K.C.P/N:																														
<p>(1) SHAPE :</p>  <p style="text-align: center;">PAD LAYOUT UNIT: mm</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 30px;">A</td><td>6.6±0.2</td><td>mm</td></tr> <tr><td>B</td><td>7.0±0.3</td><td>mm</td></tr> <tr><td>C</td><td>2.8±0.2</td><td>mm</td></tr> <tr><td>D</td><td>3.0REF</td><td>mm</td></tr> <tr><td>E</td><td>1.6REF</td><td>mm</td></tr> <tr><td>H</td><td>3.5REF</td><td>mm</td></tr> <tr><td>I</td><td>2.35REF</td><td>mm</td></tr> <tr><td>J</td><td>3.7REF</td><td>mm</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	A	6.6±0.2	mm	B	7.0±0.3	mm	C	2.8±0.2	mm	D	3.0REF	mm	E	1.6REF	mm	H	3.5REF	mm	I	2.35REF	mm	J	3.7REF	mm						
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		I	2.35REF	mm																												
		J	3.7REF	mm																												
<p>(2)ELECTRICAL REQUIREMENTS:</p> <ol style="list-style-type: none"> 1. L:33±20%uH(100KHz/1V) 2. RDC:270mΩ (max) 3. Isat:2.5A(TYP) IDC:2.0A(TYP) <p>Isat Inductance Drop 30% at typ IDC: ΔT=40°C typ</p>		<p>(3) TEST CONDITIONS:</p> <ol style="list-style-type: none"> 1. L:HP4284A 2. RDC:HIOKI3540 3. IDC:HP4284A+HP42841A 																														
<p>(4)PACKING</p> <p><input type="checkbox"/> IN BULK <input type="checkbox"/> VACUUM <input type="checkbox"/> INSERTION</p> <p>PCS/BAG* BAGS/INNER BOX BOXES/CARTON = PCS</p> <p>PCS/PLATE* PLATES/CARTON= PCS</p> <p>PCS/TRAY* TRAYS/CARTON= PCS</p> <p>1000 PCS/REEL* REELS/CARTON= PCS</p>	<p>(5) APPEARANCE</p>																															
<p>(6)REMARK:</p>		<p>Approved by 吳炳勳</p> <p>Checked by 吳明珠</p> <p>Drawn by 陳雯欣 2021/5/4</p> <p>DWG.NO. 20209002A</p>																														

TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER	MARITEX			CUST. P/N	
ORDERING CODE	BSF0603SMSE330MT			K.C. P/N	
TEMP.	24 °C	RH	69 %	DWG.NO.	20209002A
WIRE		WINDING		QTY	5PCS
Test Instruments					
Meas. Item.	<i>L (uH)</i>	<i>RDC (m Ω)</i>			
Specification	33±20%	270max			
Test Freq.	100 KHz/1V				
sample#1	31.6	193			
sample#2	30.2	190			
sample#3	32.3	188			
sample#4	31.5	190			
sample#5	31.4	196			
sample#6					
sample#7					
sample#8					
sample#9					
sample#10					
\bar{X}	31.4	191			
R	2.1	8			
REMARK:				Approved by: 吴炳熟	
				Checked by: 吴明珠	
				Drawn by: 陈雯欣	

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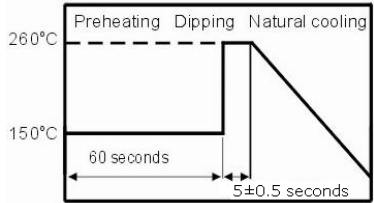
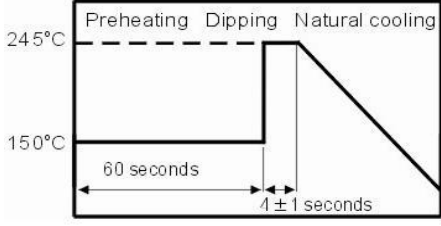
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RELIABILITY TEST – BS / BSF SERIES

1-1 Mechanical Performance

No	Item	Specification	Test Method
1-1-1	Vibration	Appearance: No damage L change: within $\pm 20\%$	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
1-1-2	Resistance to Soldering Heat	Appearance: No damage	Preheat: 150°C , 60 seconds Solder: temperature: $260 \pm 5^{\circ}\text{C}$ 
1-1-3	Solderability	The electrodes shall be at least 90% covered with new solder coating	Preheat: 150°C , 60 seconds Solder: temperature: $245 \pm 3^{\circ}\text{C}$ 

1-2 Environmental Performance

No	Item	Specification	Test Method									
1-2-1	Thermal Shock	Appearance: No damage L change: within $\pm 20\%$	One cycle: <table border="1" data-bbox="817 1798 1278 1933"> <thead> <tr> <th>Step</th> <th>Temperature ($^{\circ}\text{C}$)</th> <th>Time (min)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-40 ± 3</td> <td>30</td> </tr> <tr> <td>2</td> <td>125 ± 2</td> <td>30</td> </tr> </tbody> </table> Total: 96cycles Measured after exposure in the room condition for 24hrs	Step	Temperature ($^{\circ}\text{C}$)	Time (min)	1	-40 ± 3	30	2	125 ± 2	30
Step	Temperature ($^{\circ}\text{C}$)	Time (min)										
1	-40 ± 3	30										
2	125 ± 2	30										



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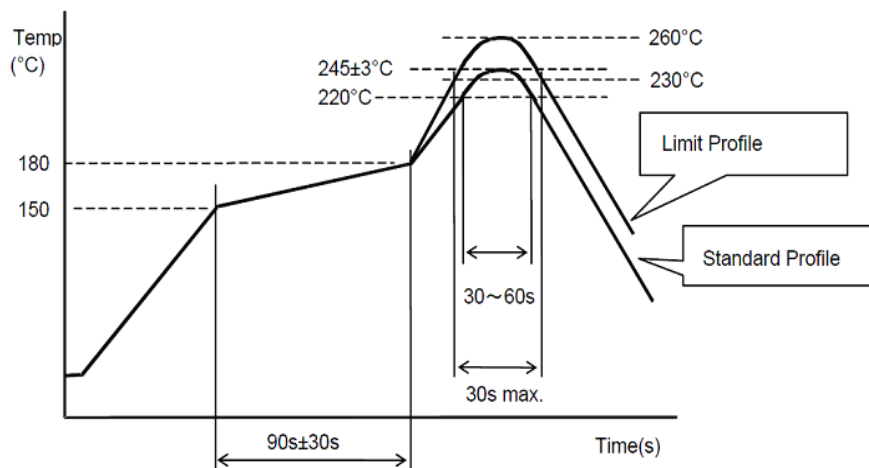
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1-2-2	Humidity Resistance		Temperature: 85±2°C Relative Humidity: 90 ~ 95% Time: 96hrs Measured after exposure in the room condition for 24hrs
1-2-3	High Temperature Resistance		Temperature: 125±3°C Time: 96hrs Measured after exposure in the room condition for 24hrs
1-2-4	Low Temperature Resistance		Temperature: -40±3°C Relative Humidity: 0% Time: 96hrs Measured after exposure in the room condition for 24hrs

1-3 Recommended Reflow Soldering profile



	Standard Profile	Limit Profile
Pre-heating	150~180°C、90s±30s	
Heating	above 220°C、30s~60s	above 240°C、30s max.
Peak temperature	245±3°C	260°C、10s
Cycle of reflow	2 times	2 times

Note

1. Operating Temperature Range: -40°C to +125°C (including self-heating.)

2. Storage conditions

- Products should be storage in the warehouse on the following conditions.

Temperature : 0 ~ 40°C

Humidity : 55 ~ 70% relative humidity

No rapid change on temperature and humidity

3. Storage Temperature Range: -40°C to +85°C (For products in unopened tape package 0°C to +40°C)



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1-4 Caution for use

1-4-1. Limitation of Applications

Please contact us before using our products for the applications listed below which require especially high reliability for the prevention of defects which might directly cause damage to the third party's life, body or property.

- | | |
|-----------------------------------|---|
| (1) Aircraft equipment | (6) Transportation equipment (vehicles, trains, ships, etc.) |
| (2) Aerospace equipment | (7) Traffic signal equipment |
| (3) Undersea equipment | (8) Disaster prevention / crime prevention equipment |
| (4) Power plant control equipment | (9) Data-processing equipment |
| (5) Medical equipment | (10) Applications of similar complexity and / or reliability
Requirements to the applications listed in the above. |