



SPECIFICATION FOR APPROVAL

CUSTOMER			
NOMINAL FREQUENCY	25.000000 MHz		
PRODUCT TYPE	TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL		
SPEC. NO. (P/N)	FL2500050		
CUSTOMER P/N			
ISSUE DATE	October 2, 2017		
VERSION	C		

APPROVED	PREPARED	QA
Brenda	Niklai Lu	Dong Jang

Diodes Incorporation

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TEL: 886-3-451-8888 FAX: 886-3-461-3865 http://www.diodes.com *Pb-free

*RoHS Compliant

*HF-Halogen Free

*REACH Compliant

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FL2500050

VER. C 2-Oct-17

VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
Α	Oct.1,2009			Initial Release	
В	Mar.7,2011			Updated Suggested IR Reflow Profile & Format	
С	Oct.2,2017			Updated Logo	

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ELECTRICAL SPECIFICATIONS

Symbol	Specifications	Units	Notes
Fn	25.000000	MHz	
МО	AT Cut-Fundamental		
CL	20	pF	
FL	±20	ppm	at 25°C±3°C
TR	-40 to +85	°C	
F/T	±20	ppm	Reference to the Frequency at 25°C
	10	μW	
	100	μW	
ESR	60	Ω	Max
C0	5	pF	Max
	±3	ppm	Max, 1st year
	-55 to +125	°C	
	500	МΩ	Min
	Fn MO CL FL TR F/T ESR	Fn 25.000000 MO AT Cut-Fundamental CL 20 FL ±20 TR -40 to +85 F/T ±20 10 100 ESR 60 C0 5 ±3 -55 to +125	Fn 25.000000 MHz MO AT Cut-Fundamental CL 20 pF FL ±20 ppm TR -40 to +85 °C F/T ±20 ppm 10 μW ESR 60 Ω C0 5 pF ±3 ppm -55 to +125 °C

※ This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb - Free).

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RELIABILITY SPECIFICATIONS

MECHANICAL AND ENVIRONMENTAL RATINGS:

a) FINE LEAK TEST: JESD22-A109 (Condition 1A)

b) GROSS LEAK TEST: JESD22-A109 (Condition C)

c) MOISTURE RESISTANCE: JESD22-A113

d) SHOCK: JESD22-B104 (Condition B)

e) SOLDERABILITY: (RoHS version): J-STD-002

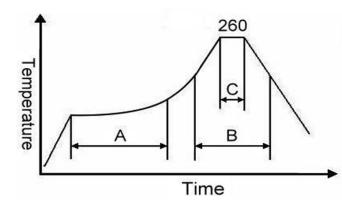
f) VIBRATION: JESD22-B103

g) SOLVENT RESISTANCE: JESD22-B107

h) RESISTANCE TO SOLDERING HEAT (RoHS version): J-STD-020D Table 5.2 Pb free devices (3 cycles max)

SUGGESTED IR REFLOW PROFILE

*As per IPC-JEDEC J-STD-020D



N	ote	٠.
13	OLG	7.

	Stage	Temperature	Time	
A Preheat		150~200°C	60~120 Sec	
B Primary Heat		217°C	60~150 Sec	
C Peak		260°C	10 Sec	

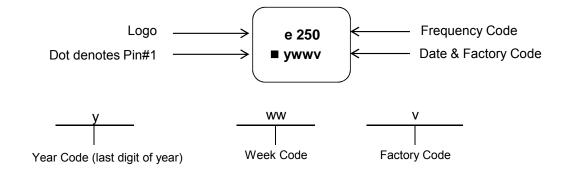
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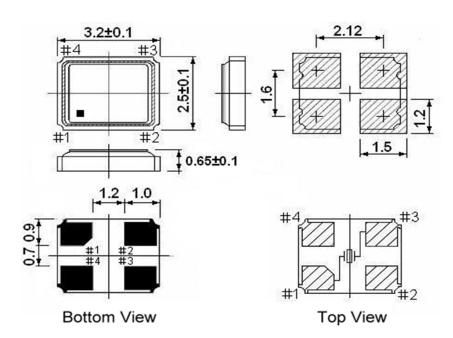
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MARKING



MECHANICAL DRAWINGS (Scale: None. Dimensions are in mm.)

Recommended Land Pattern



** Recommended - Pin 1 & 3 : CRYSTAL Pin 2 & 4 : GND

Notes:

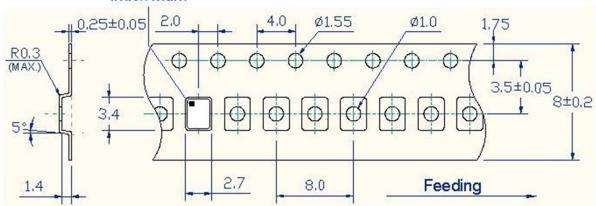
- Package drawings are for reference only, and the appearances of objects may vary.
 Actual packages are based on the real product.
- 2. The marking dot denotes Pin#1.
- 3. The position and shape of the chamfer pin may vary and are based on the real product.

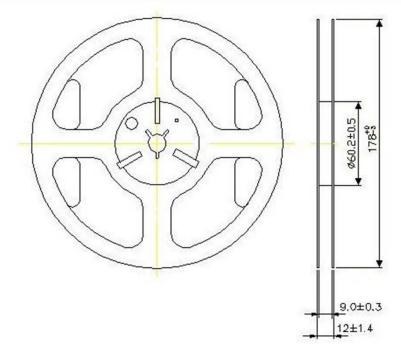
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Tape & Reel

Index Mark

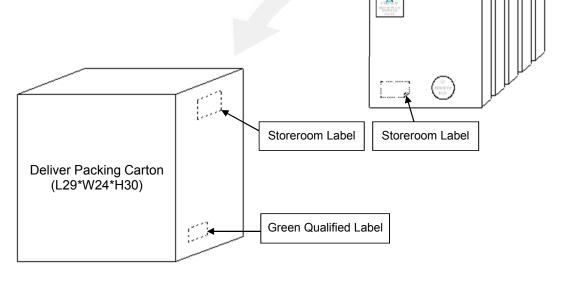




- 1. 230mm minimum leafer which consist of carrier and/or tape followed by a minimum of 160mm of empty carrier tape sealed with cover tape.
- 2. 160mm minimum trailer of empty carrier tape sealed with cover tape.

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TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL FL2500050 VER. C 2-Oct-17 **PACKING** Start **Begin** End 3000pcs-Product Tape Inner Packing Carton Blue Qualified Label Storeroom Label



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