	A Product Line of Diodes Incorporated	PERICOM		
SPECIFICA7	TION FOR A	APPROVAL		
CUSTOMER				
NOMINAL FREQUENCY	27.0	27.000000 MHz		
PRODUCT TYPE	TYPE FL 3.2x2.5 \$	TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL		
SPEC. NO. (P/N)	FI	FL2700050		
CUSTOMER P/N				
ISSUE DATE	Decer	December 13, 2017		
VERSION		В		
APPROVED Brenda	PREPARED	QA Dong Jang		
Diodes Incorporated No.2, Ziqiang 5th Rd., Zhongli Indu Zhongli Dist., Taoyuan City 32063, TEL: 886-3-451-8888 FAX: 886-3-461-3865 https://www.diodes.com	Taiwan (R.O.C.) *RoF *HF-	free 1S Compliant Halogen Free ACH Compliant		

FL2700050

VER. B 13-Dec-17

VERSION HISTORY

Version No.	Version Date	Description	Notes	
А	Jan.4,2011	Initial Release		
В	Dec.13,2017	Updated logo		



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ELECTRICAL SPECIFICATIONS

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	27.000000	MHz	
Mode of Oscillation	MO	AT Cut-Fundamental		
Calibration Load Capacitance	CL	20	pF	
Calibration Tolerance	FL	±20	ppm	at 25℃±3℃
Operating Temperature Range	TR	-20 to +70	C	
Frequency Stability (Frequency Deviation over the Operating Temperature Range)	F/T	±20	ppm	Reference to the Frequency at 25°
Operating Drive Level		10	μW	
Maximum Drive Level		100	μW	
Equivalent Series Resistance	ESR	60	Ω	Max
Shunt Capacitance	C0	5	pF	Max
Aging at 25℃		±5	ppm	Max, 1st year
Storage Temperature		-55 to +125	C	
Insulation Resistance		500	MΩ	Min

* 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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Time

60~120 Sec 60~150 Sec

10 Sec

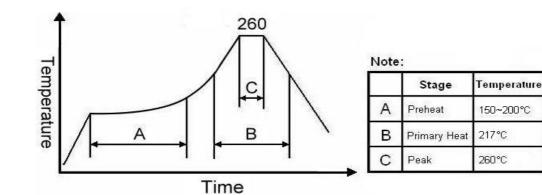
RELIABILITY SPECIFICATIONS

MECHANICAL AND ENVIRONMENTAL RATINGS:

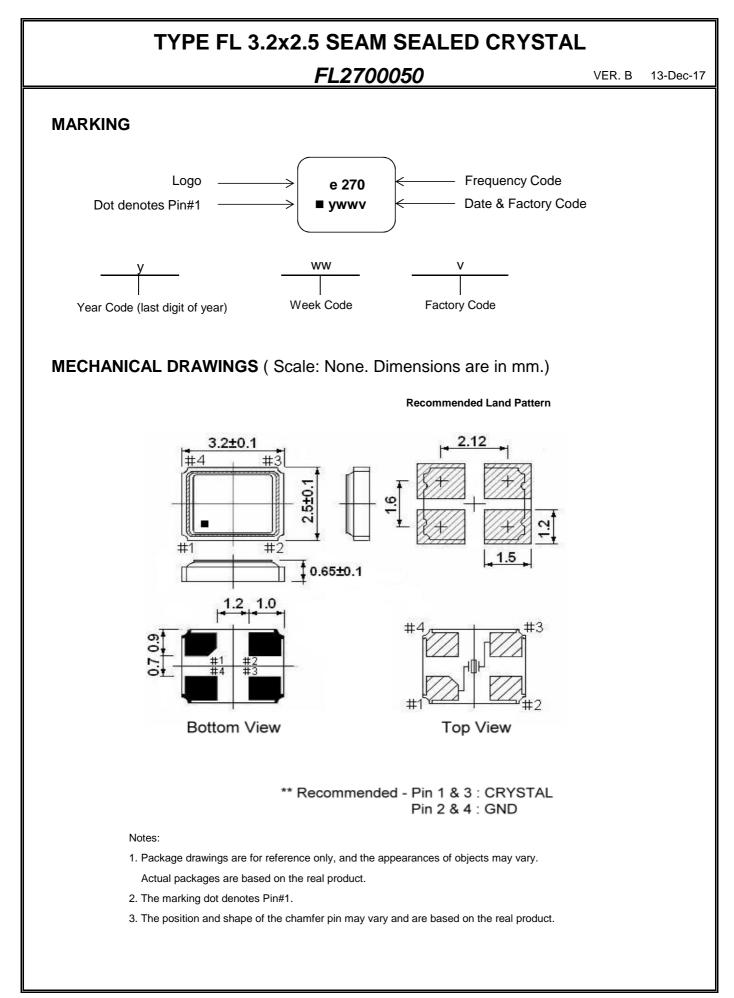
- a) FINE LEAK TEST: JESD22-A109 (Condition 1A)
- b) GROSS LEAK TEST: JESD22-A109 (Condition C)
- c) MOISTURE RESISTANCE: JESD22-A113
- d) SHOCK: JESD22-B104 (Condition B)
- e) SOLDERABILITY : (RoHS version): J-STD-002
- f) VIBRATION: JESD22-B103
- g) SOLVENT RESISTANCE: JESD22-B107
- h) RESISTANCE TO 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





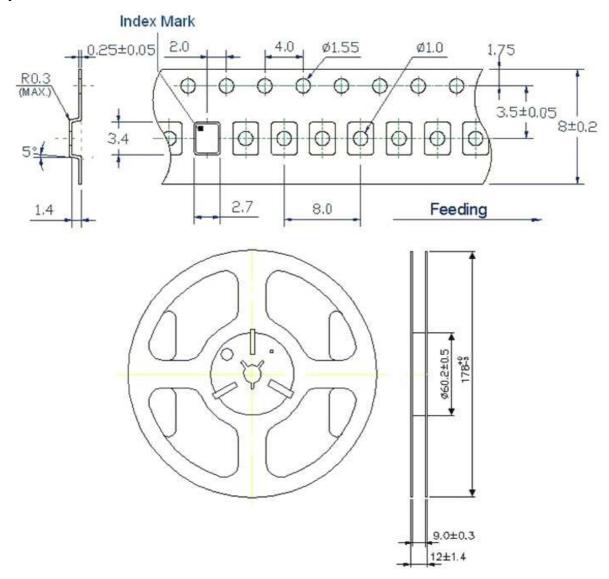




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Tape & Reel



- 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.



