	A Product Line of Diodes Incorporated	PERICOM [®]		
SPECIFICAT	ION FOR	APPROVAL		
CUSTOMER				
NOMINAL FREQUENCY	32	32.000000 MHz		
PRODUCT TYPE	TYPE FL 3.2x2.	TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL		
SPEC. NO. (P/N)		FL3200032		
CUSTOMER P/N				
ISSUE DATE	Oc	October 16, 2017		
VERSION		C		
Brenda	Nifbi Lu	QA Domy Yang		
Diodes Incorporated No.2, Ziqiang 5th Rd., Zhongli Indus Zhongli Dist., Taoyuan City 32063, TEL: 886-3-451-8888 FAX: 886-3-461-3865 https://www.diodes.com	Taiwan (R.O.C.) *F *F	Pb-free RoHS Compliant IF-Halogen Free REACH Compliant		

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VERSION HISTORY

Version Version No. Date		Description	Notes
А	Apr.23,2009	Initial Release	
В	Jun.7,2012	Updated Suggested IR Reflow Profile & Format & Changed Logo	
С	Oct.16,2017	Updated logo	
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ELECTRICAL SPECIFICATIONS

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	32.000000	MHz	
Mode of Oscillation	MO	AT Cut-Fundamental		
Calibration Load Capacitance	CL	12	pF	
Calibration Tolerance	FL	±20	ppm	at 25°C±3°C
Operating Temperature Range	TR	-40 to +85	°C	
Frequency Stability (Frequency Deviation over the Operating Temperature Range)	F/T	±20	ppm	Reference to the Frequency at 25°C
Operating Drive Level		10	μW	
Maximum Drive Level		100	μW	
Equivalent Series Resistance	ESR	40	Ω	Max
Shunt Capacitance	C0	5	pF	Max
Aging at 25°C		±3	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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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

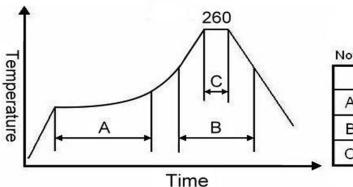
f) VIBRATION: JESD22-B103

g) SOLVENT RESISTANCE: JESD22-B107

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

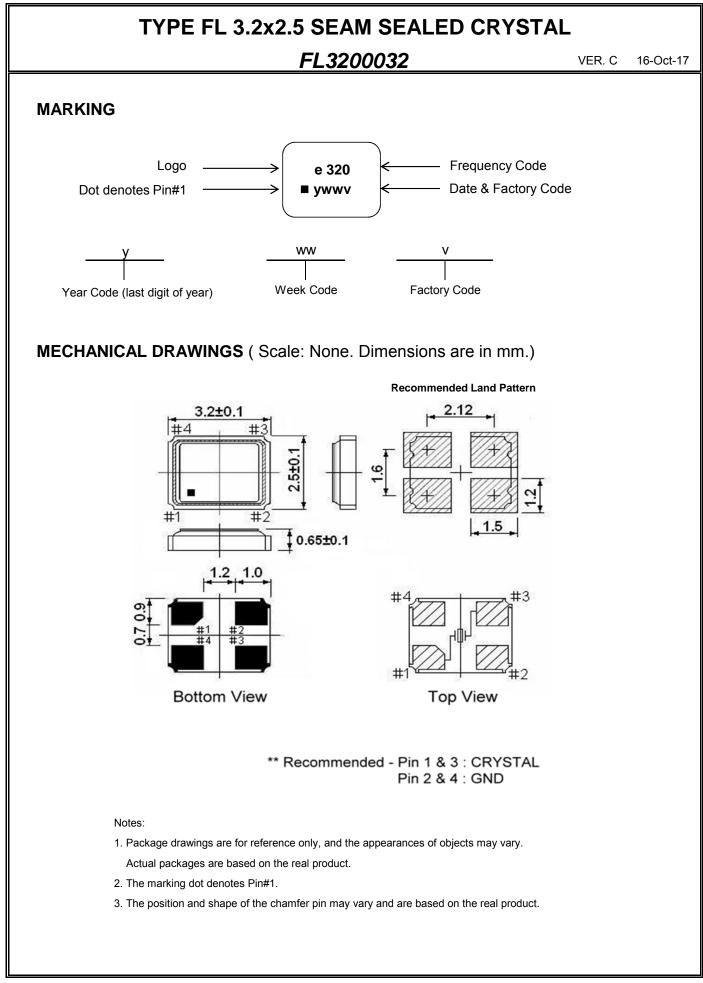
SUGGESTED IR REFLOW PROFILE

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



Note	Stage	Temperature	Time
А	Preheat	150~200°C	60~120 Sec
в	Primary Heat	217°C	60~150 Sec
С	Peak	260°C	10 Sec



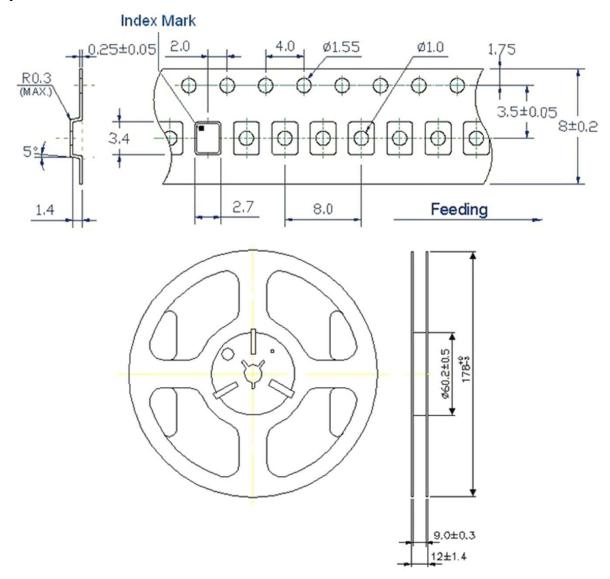




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Tape & Reel



- 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.



