	A Product Line of Diodes Incorporated	PERICOM®		
SPECIFICAT	TION FOR A	PPROVAL		
CUSTOMER				
NOMINAL FREQUENCY	40.00	40.000000 MHz		
PRODUCT TYPE	TYPE FL 3.2x2.5 S	TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL		
SPEC. NO. (P/N)	FL4	FL4000065		
CUSTOMER P/N				
ISSUE DATE	Marc	March 1, 2018		
VERSION		E		
APPROVED	PREPARED	QA		
Brenda	Kelly	Dong Yang		
Diodes Incorporated				

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https://www.diodes.com

*Pb-free

- *RoHS Compliant
- *HF-Halogen Free
- *REACH Compliant

FL4000065

VER. E 1-Mar-18

VERSION HISTORY

Version No.	Version Date	Description	Notes	
А	Feb.12,2009	Initial Release		
В	Mar.26,2009	Change Operating Temperature Range to -20~85℃		
С	Jan.3,2011	Revised format		
D	Aug.10,2017	1.Changed Logo 2.Changed Marking		
Е	Mar.1,2018	Updated logo		
	<u></u>			



FL4000065

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ELECTRICAL SPECIFICATIONS

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	40.000000	MHz	
Mode of Oscillation	MO	AT Cut-Fundamental		
Calibration Load Capacitance	CL	10	pF	
Calibration Tolerance	FL	±10	ppm	at 25℃±3℃
Operating Temperature Range	TR	-20 to +85	C	
Frequency Stability (Frequency Deviation over the Operating Temperature Range)	F/T	±10	ppm	Reference to the Frequency at 25℃
Operating Drive Level		150	μW	
Maximum Drive Level		300	μW	
Equivalent Series Resistance	ESR	25	Ω	Max
Shunt Capacitance	C0	1.31	pF	Тур
Motional Capacitance	C1	4.21	fF	Тур
Aging at 25℃		±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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Time

60~120 Sec 60~150 Sec

10 Sec

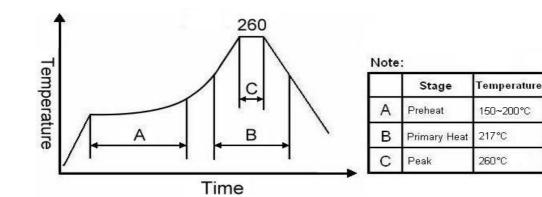
RELIABILITY SPECIFICATIONS

MECHANICAL AND ENVIRONMENTAL RATINGS:

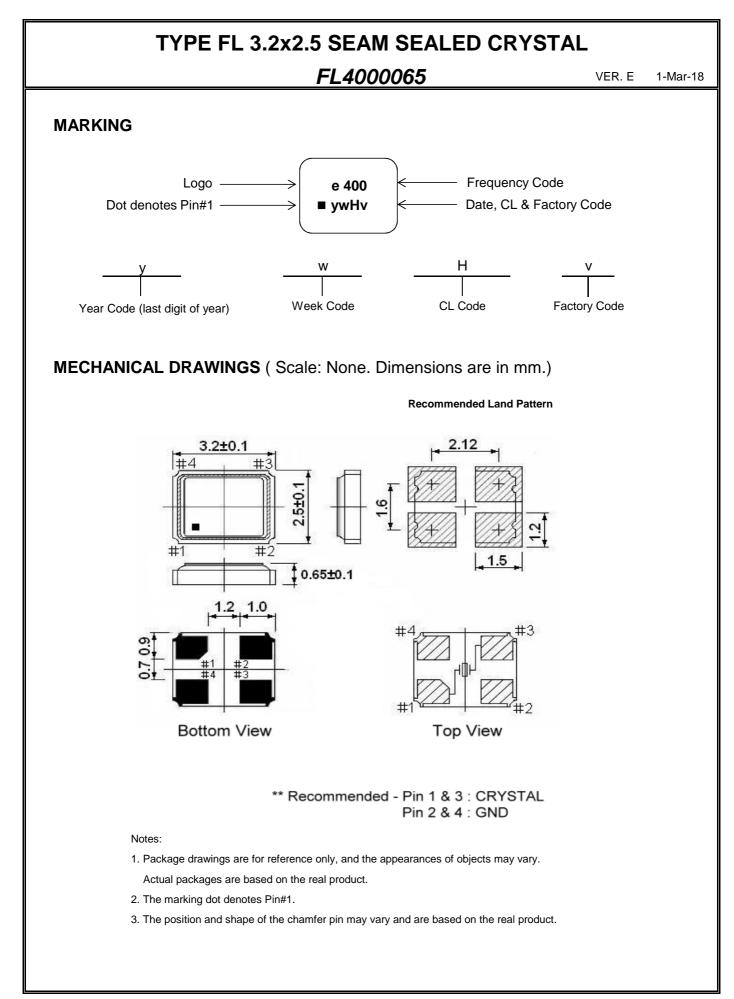
- a) FINE LEAK TEST: JESD22-A109 (Condition 1A)
- b) GROSS LEAK TEST: JESD22-A109 (Condition C)
- c) MOISTURE RESISTANCE: JESD22-A113
- d) SHOCK: JESD22-B104 (Condition B)
- e) SOLDERABILITY : (RoHS version): J-STD-002
- f) VIBRATION: JESD22-B103
- g) SOLVENT RESISTANCE: JESD22-B107
- h) RESISTANCE TO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





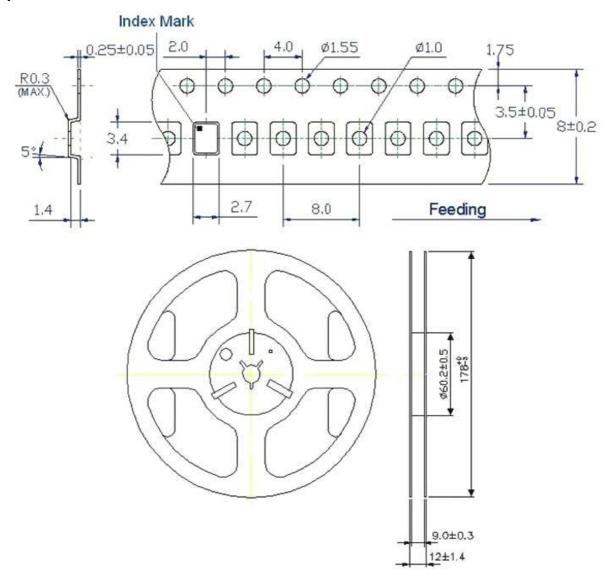




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Tape & Reel



- 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.



