SPECIFICAT		PERICOM [®] APPROVAL		
CUSTOMER				
IOMINAL FREQUENCY	25.	25.000000 MHz		
RODUCT TYPE	TYPE FL 3.2x2.5	TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL		
SPEC. NO. (P/N)	I	FL2500078		
CUSTOMER P/N				
SSUE DATE	Oc	October 2, 2017		
/ERSION		D		
APPROVED	PREPARED	QA		
Brenda	Claire	Dong Jang		
Diodes Incorporation				
No.2, Ziqiang 5th Rd., Zhongli Indusi Zhongli Dist., Taoyuan City 32063, T EL: 886-3-451-8888 AX: 886-3-461-3865 http://www.diodes.com	aiwan (R.O.C.) *Ro *Hi	o-free oHS Compliant ⁻ -Halogen Free EACH Compliant		

TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL

FL2500078

VER. D 2-Oct-17

VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
А	Oct.25,2010			Initial Release	
В	Jan.18,2011			1. Changed Calibration Load Capacitance from 20pf to 12pf 2. Changed Operating Drive Level from 10μW to 100μW & Changed Maximum Drive Level from 100μW to 250μW	
С	Jan.28,2011			Updated Calibration Tolerance note	
D	Oct.2,2017			Updated Logo	



TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL

FL2500078

VER. D 2-Oct-17

ELECTRICAL SPECIFICATIONS

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	25.000000	MHz	
Mode of Oscillation	MO	AT Cut-Fundamental		
Calibration Load Capacitance	CL	12	pF	
Calibration Tolerance	FL	±25	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	±25	ppm	Reference to the Frequency at 25°C
Operating Drive Level		100	μW	
Maximum Drive Level		250	μW	
Equivalent Series Resistance	ESR	60	Ω	Мах
Shunt Capacitance	C0	5	pF	Мах
Aging at 25°C		±5	ppm	Max, 1st year
Storage Temperature		-55 to +125	°C	
Insulation Resistance		500	MΩ	Min

X 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).



TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL

FL2500078

VER. D 2-Oct-17

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

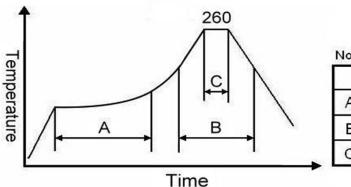
f) VIBRATION: JESD22-B103

g) SOLVENT RESISTANCE: JESD22-B107

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

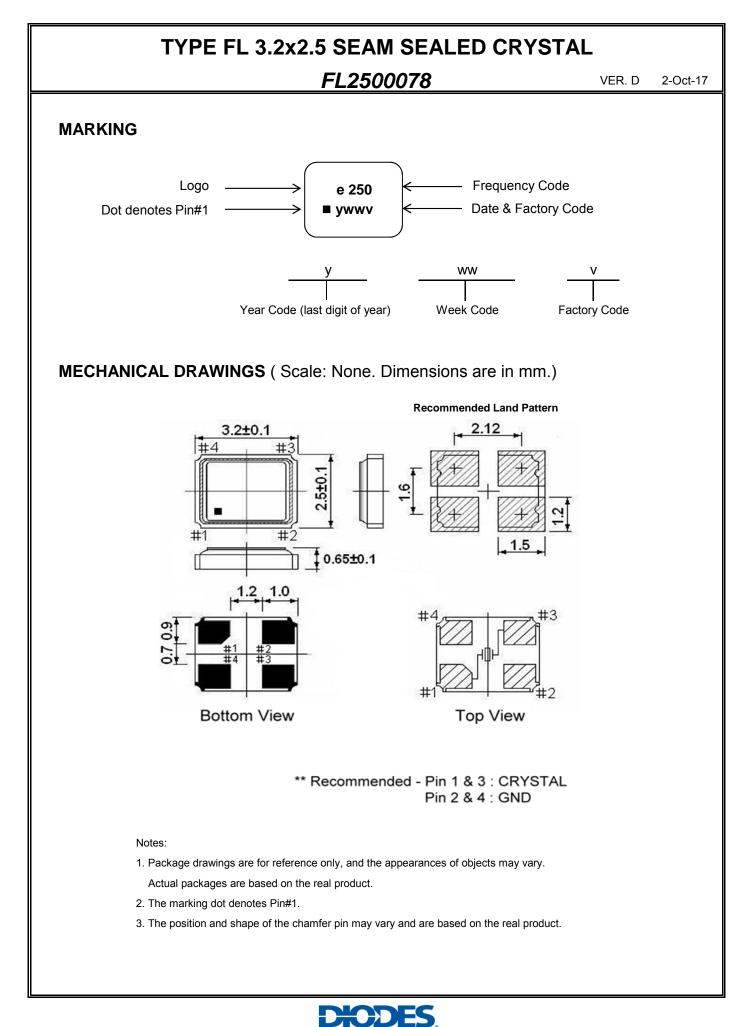
SUGGESTED IR REFLOW PROFILE

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



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





TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL FL2500078 VER. D 2-Oct-17 Tape & Reel Index Mark 2.0 0.25±0.05 Ø1.55 Ø1.0 4.0 1.75 R0.3 (MAX.) Œ ŧ 3.5±0.05 8±0.2 3.4 5 2.7 Feeding 8.0 1.4 Ø60.2±0.5 178-5 9.0±0.3 12±1.4 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.



