



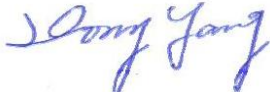


A Product Line of
Diodes Incorporated



SPECIFICATION FOR APPROVAL

CUSTOMER	
NOMINAL FREQUENCY	25.000000 MHz
PRODUCT TYPE	TYPE F6 6x3.5 GLASS SEALED CRYSTAL
PART NUMBER	F62500039
CUSTOMER P/N	
ISSUE DATE	December 21, 2017
VERSION	C

APPROVED	PREPARED	QA
		

Diodes Incorporated

No.2, Ziqiang 5th Rd., Zhongli Industrial Park,
Zhongli Dist., Taoyuan City 32063, Taiwan (R.O.C.)
TEL:886-3-451-8888
FAX:886-3-461-3865
<https://www.diodes.com>

*RoHS Exemption
*HF-Halogen Free
*REACH Compliant

TYPE F6 6x3.5 GLASS SEALED CRYSTAL

F62500039

VER.C 21-DEC-17

VERSION HISTORY

Version No.	Version Date	Description	Notes
A	May. 4, 2010	Initial Release	
B	May. 16, 2011	Updated Suggested IR Reflow Profile & Format	
C	Dec. 21, 2017	Updated logo	

TYPE F6 6x3.5 GLASS SEALED CRYSTAL

F62500039

VER.C 21-DEC-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	16	pF	
Calibration Tolerance	FL	± 50	ppm	at 25°C±3°C
Operating Temperature Range	TR	-20 to +70	°C	
Frequency Stability(Frequency Deviation over the Operating Temperature Range)	F/T	± 50	ppm	Reference to the Frequency at 25°C
Operating Drive Level		10	μW	
Maximum Drive Level		100	μW	
Equivalent Series Resistance	ESR	50	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

TYPE F6 6x3.5 GLASS SEALED CRYSTAL

F62500039

VER.C 21-DEC-17

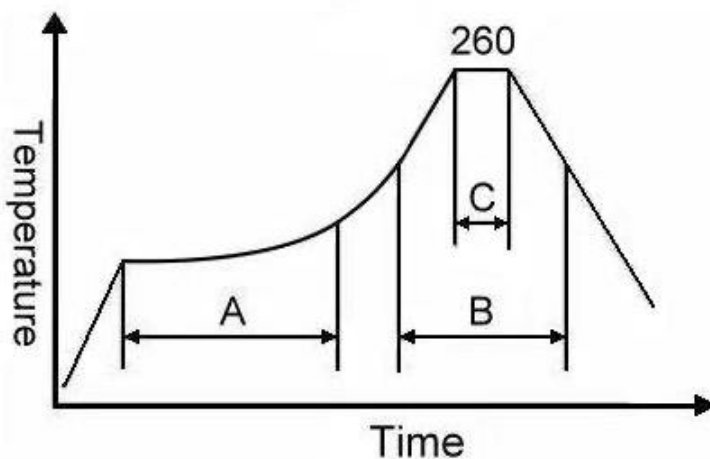
RELIABILITY SPECIFICATIONS

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:

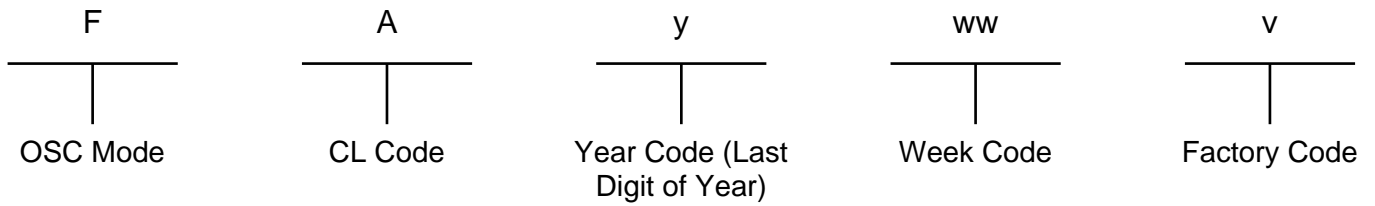
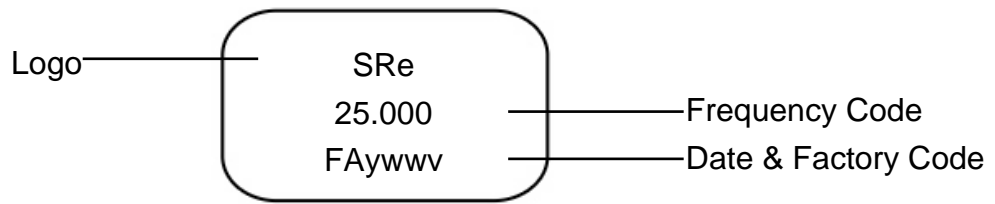
	Stage	Temperature	Time
A	Preheat	150~200°C	60~120 Sec
B	Primary Heat	217°C	60~150 Sec
C	Peak	260°C	10 Sec

TYPE F6 6x3.5 GLASS SEALED CRYSTAL

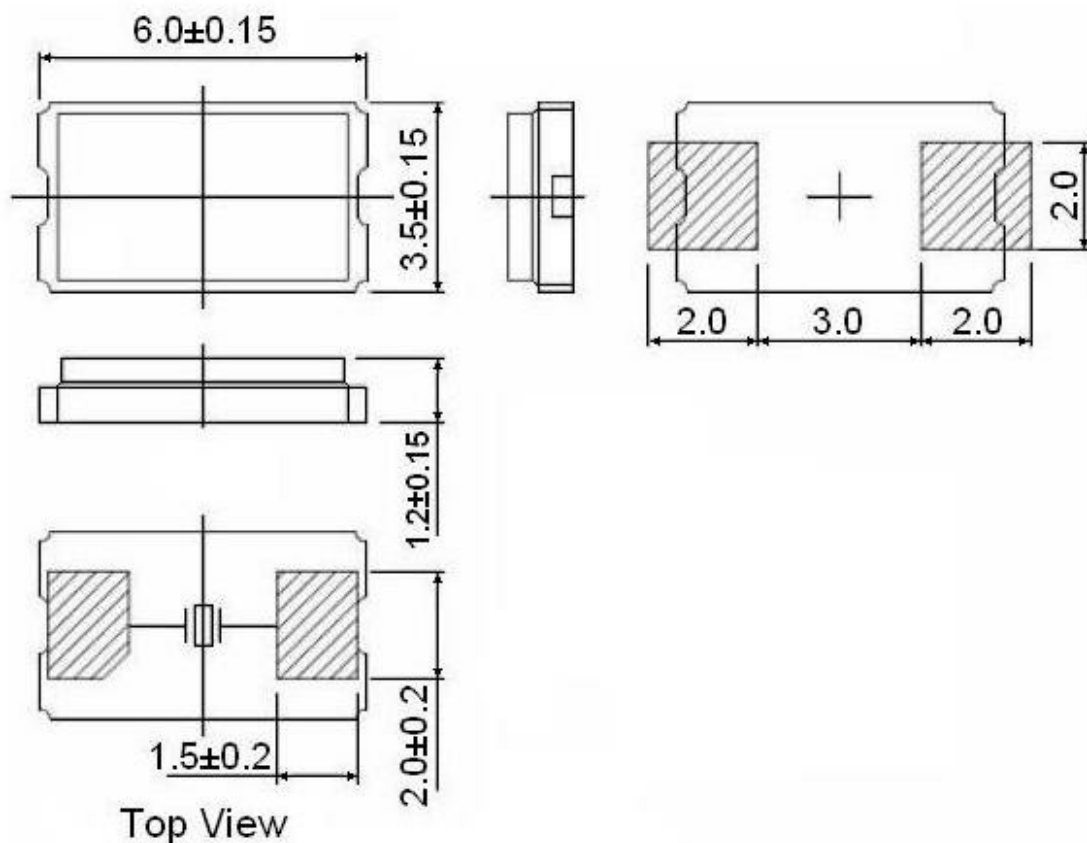
F62500039

VER.C 21-DEC-17

MARKING



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

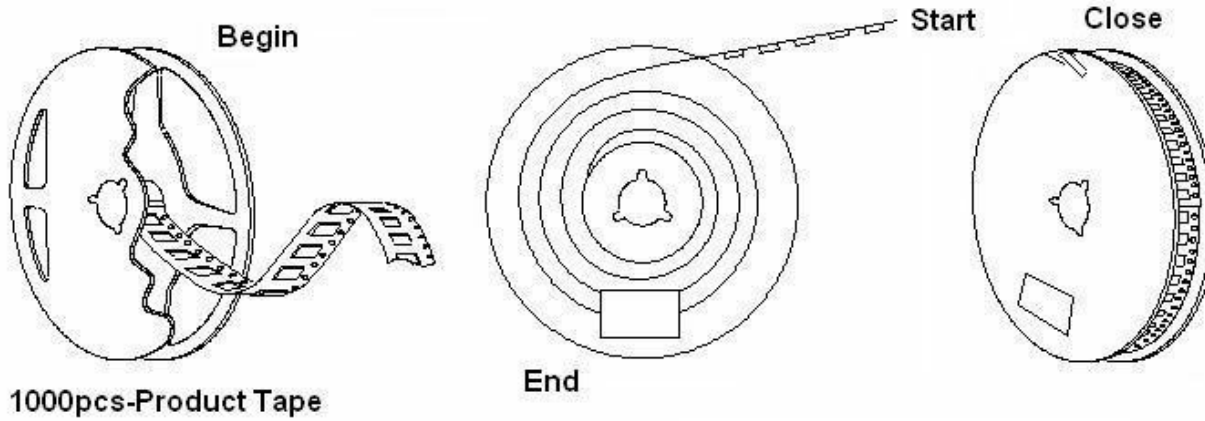


TYPE F6 6x3.5 GLASS SEALED CRYSTAL

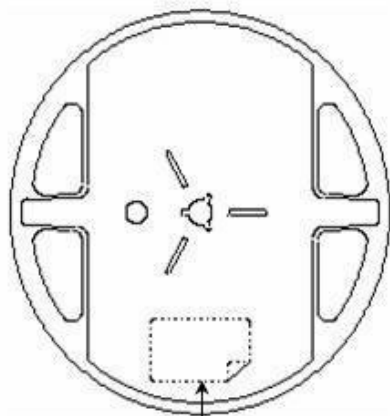
F62500039

VER.C 21-DEC-17

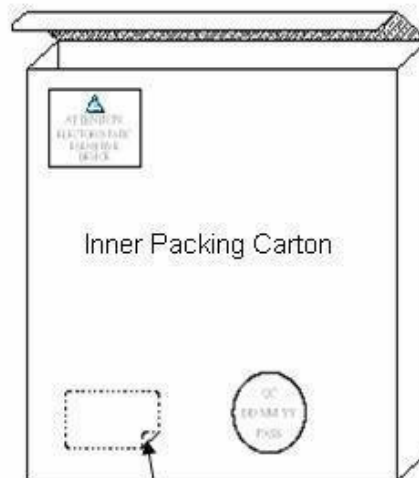
PACKING



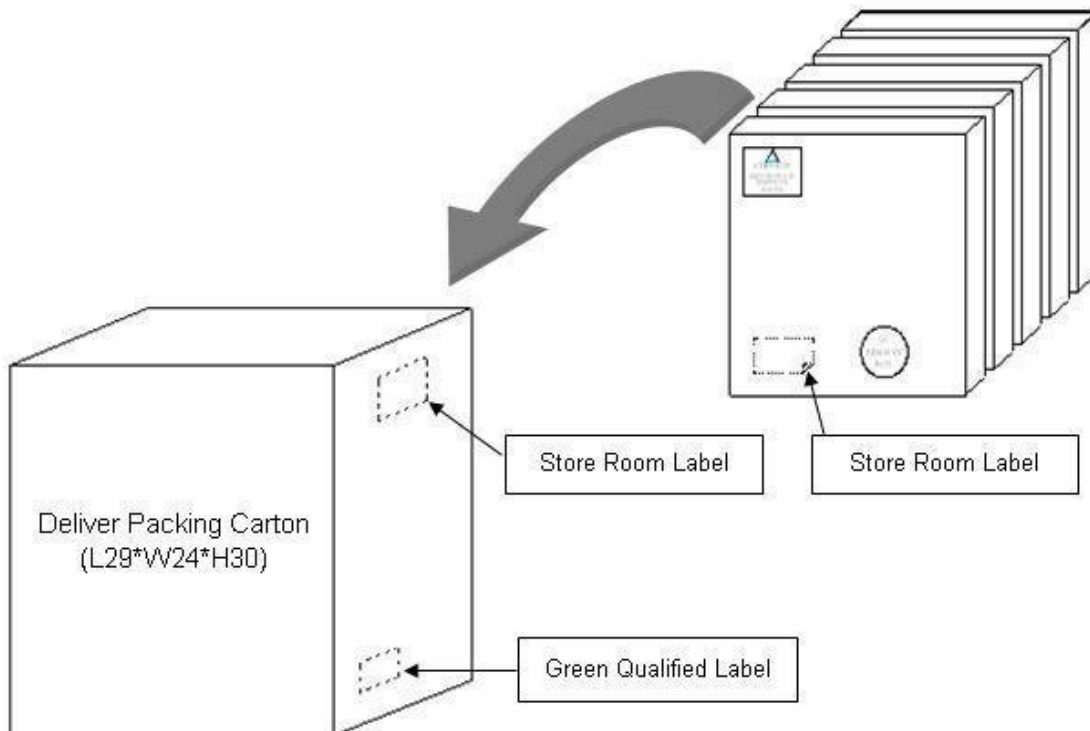
1000pcs-Product Tape



Blue Qualified Label



Store Room Label



Store Room Label

Store Room Label

Green Qualified Label