

PSE Technology Corporation

SPECIFICATION FOR APPROVAL

CUSTOMER

NOMINAL FREQUENCY

8.000000 MHz

PRODUCT TYPE

TYPE F9 5x3.2 GLASS SEALED CRYSTAL

PART NUMBER

F90800018Q

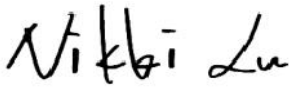
CUSTOMER P/N

ISSUE DATE

November 17, 2011

VERSION

A

APPROVED	PREPARED	QA
		
APPROVED BY CUSTOMER		
Please return one copy with approval to PSE-TW		

PSE Technology Corporation

No.2, Tzu-Chiang 5th Rd., Chung Li Industrial Park,
Chung Li City, Taoyuan County, Taiwan (R.O.C.)
TEL:886-3-451-8888
FAX:886-3-461-3865
<http://www.saronix-ecera.com.tw/>

*RoHS Exemption

*HF-Halogen Free

*REACH Compliant

A Company of PERICOM Semiconductor Corporation

TYPE F9 5x3.2 GLASS SEALED CRYSTAL

F90800018Q

VER.A 17-NOV-11

VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
A	Nov. 17, 2011			Initial Release	

TYPE F9 5x3.2 GLASS SEALED CRYSTAL

F90800018Q

VER.A 17-NOV-11

ELECTRICAL SPECIFICATIONS

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	8.000000	MHz	
Mode of Oscillation	MO	AT Cut-Fundamental		
Calibration Load Capacitance	CL	8	pF	
Calibration Tolerance	FL	± 50	ppm	at 25°C $\pm 3^{\circ}\text{C}$
Operating Temperature Range	TR	-40 to +125	°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		500	μW	
Equivalent Series Resistance	ESR	120	Ω	Max.
Shunt Capacitance	C0	5	pF	Max.
Aging at 25°C		± 5	ppm	Max, 1st year
Storage Temperature		-55 to +125	°C	
Insulation Resistance		500	M Ω	Min

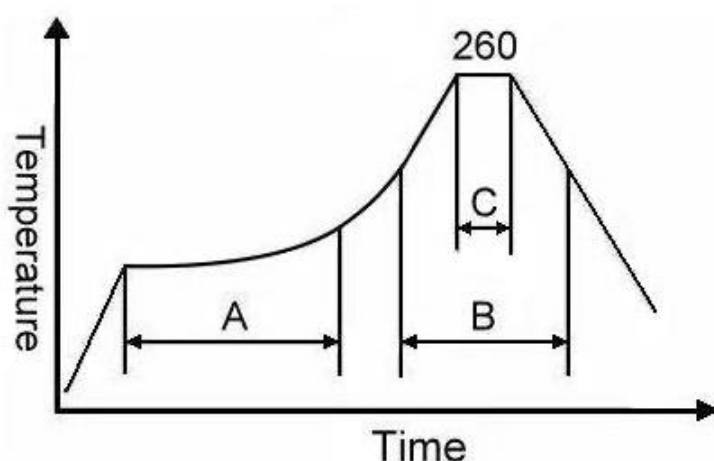
RELIABILITY SPECIFICATIONS

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

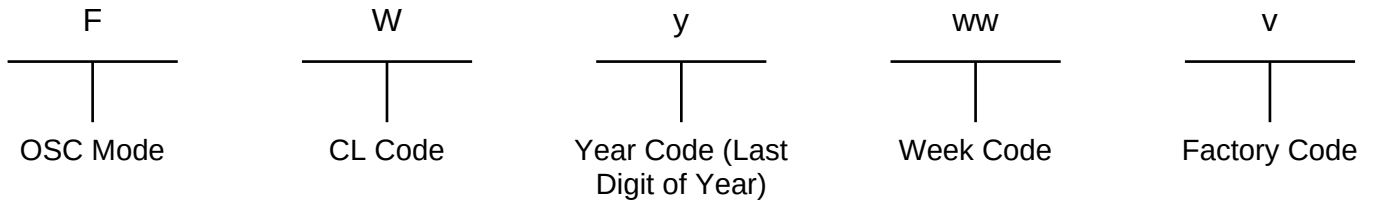
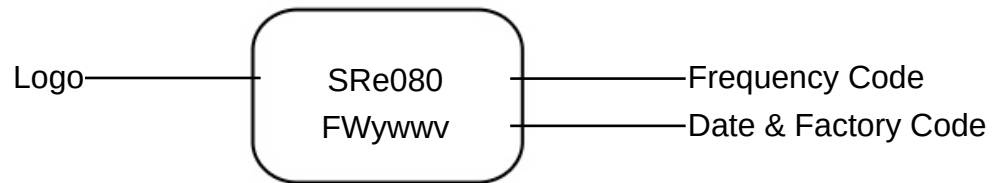
For soldering reflow profile and reliability test ratings go to: <http://www.pericom.com/pdf/sre/reflow.pdf>

TYPE F9 5x3.2 GLASS SEALED CRYSTAL

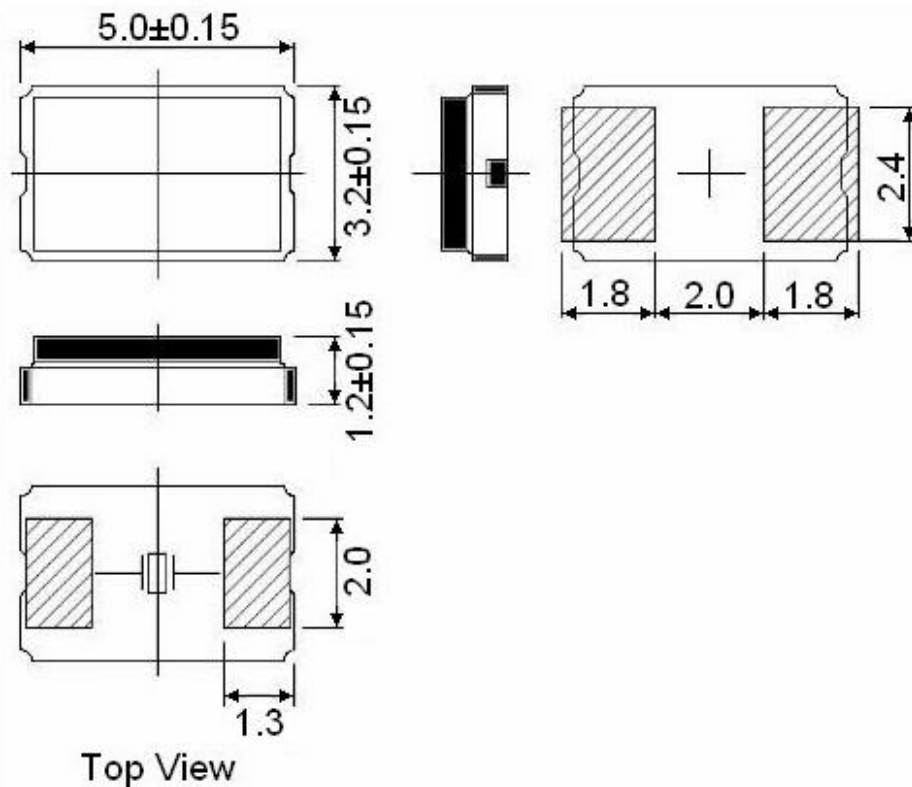
F90800018Q

VER.A 17-NOV-11

MARKING



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

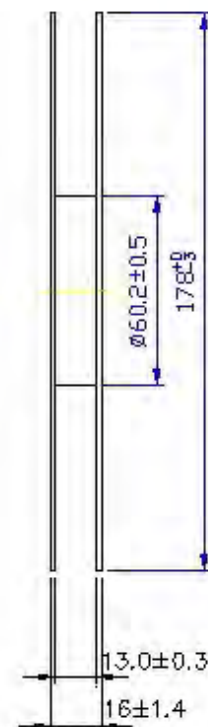
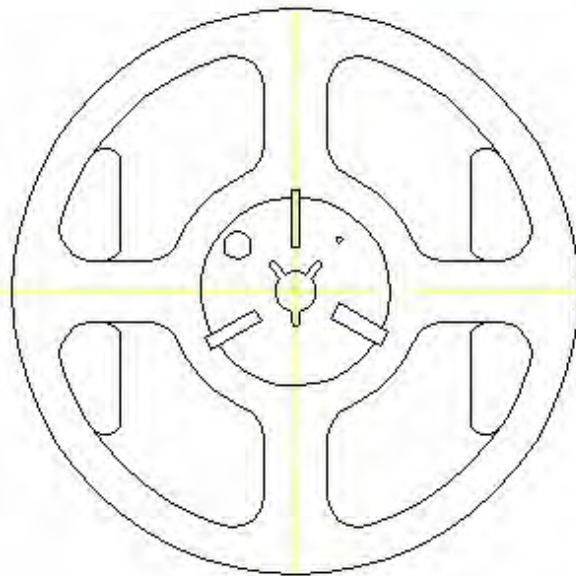
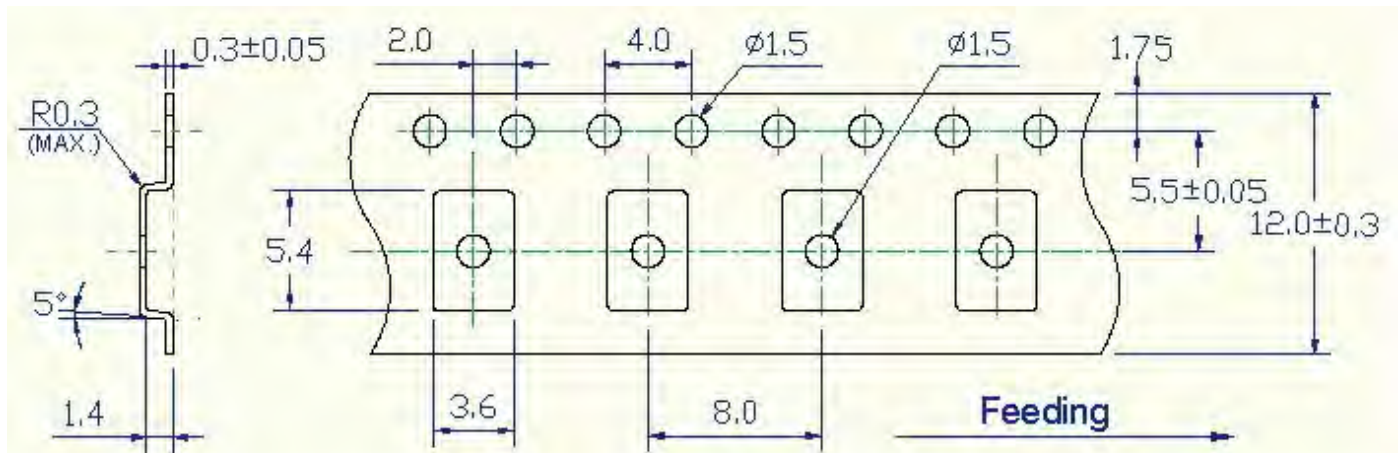


TYPE F9 5x3.2 GLASS SEALED CRYSTAL

F90800018Q

VER.A 17-NOV-11

Tape & Reel



1. 230mm minimum leader 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.

TYPE F9 5x3.2 GLASS SEALED CRYSTAL

F90800018Q

VER.A 17-NOV-11

PACKING

