imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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PSE Technology Corporation SPECIFICATION FOR APPROVAL

CUSTOMER	
NOMINAL FREQUENCY	12.000000 MHz
PRODUCT TYPE	TYPE FQ 3.2x2.5 GLASS SEALED CRYSTAL
PART NUMBER	FQ1200007
CUSTOMER P/N	
ISSUE DATE	May 30, 2013
VERSION	Α

APPROVED	PREPARED	QA					
Brenda	Nithi Lu	Beday vi					
APPROVED BY CUSTOMER							
	Please return	n 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 FQ 3.2x2.5 GLASS SEALED CRYSTAL

FQ1200007

VER.A 30-MAY-13

VERSION HISTORY								
Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes			
А	May. 30, 2013			Initial Release				



TYPE FQ 3.2x2.5 GLASS SEALED CRYSTAL

FQ1200007

VER.A 30-MAY-13

ELECTRICAL SPECIFICATIONS

Item	Symbol	Specifications	Units	Notes
Item	Symbol	Specifications	Units	INDIES
Nominal Frequency	Fn	12.000000	MHz	
Mode of Oscillation	MO AT Cut-Fundamental			
Calibration Load Capacitance	CL	18	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	± 30	ppm	Reference to the Frequency at 25°C
Operating Drive Level		10	μW	
Maximum Drive Level		100	μW	
Equivalent Series Resistance	ESR	120	Ω	Max.
Shunt Capacitance	C0	3	pF	Max.
Aging at 25°C		± 3	ppm	Max, 1st year
Storage Temperature		-55 to +125	°C	
Insulation Resistance		500	MΩ	Min



TYPE FQ 3.2x2.5 GLASS SEALED CRYSTAL

FQ1200007

VER.A 30-MAY-13

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

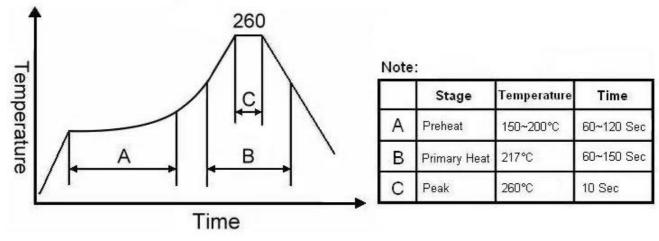
f)VIBRATION: JESD22-B103

g)SOLVENT RESISTANCE: JESD22-B107

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

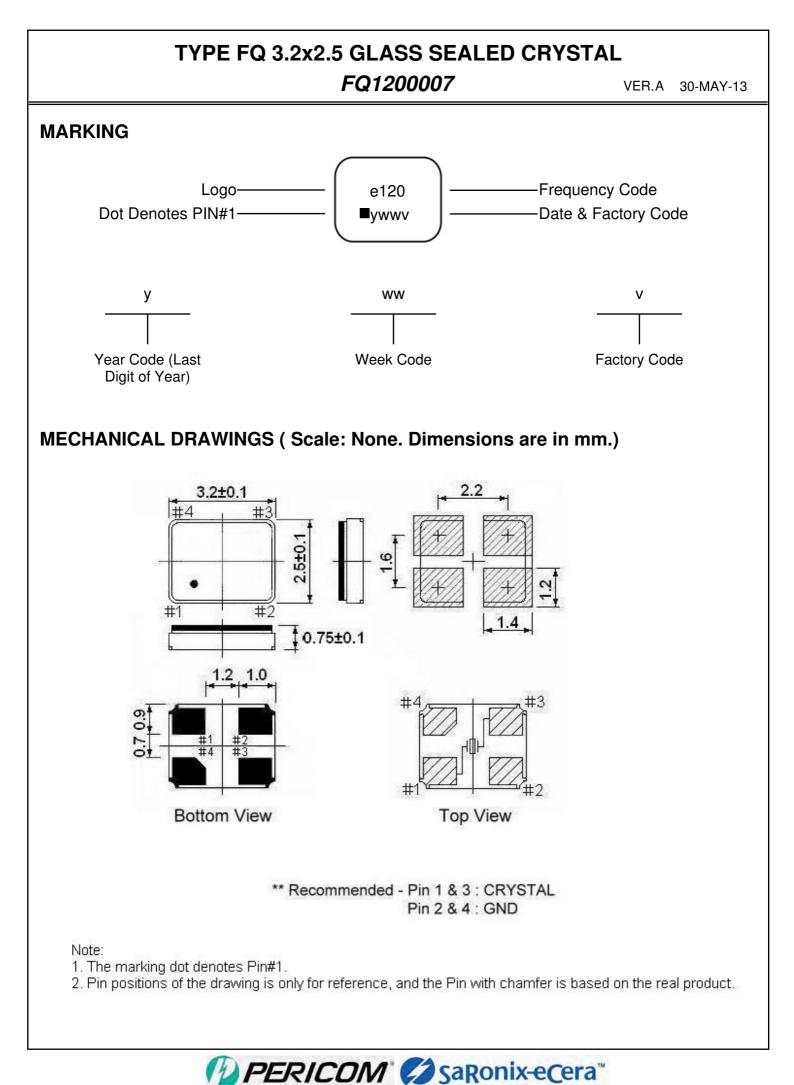
SUGGESTED IR REFLOW PROFILE

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



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

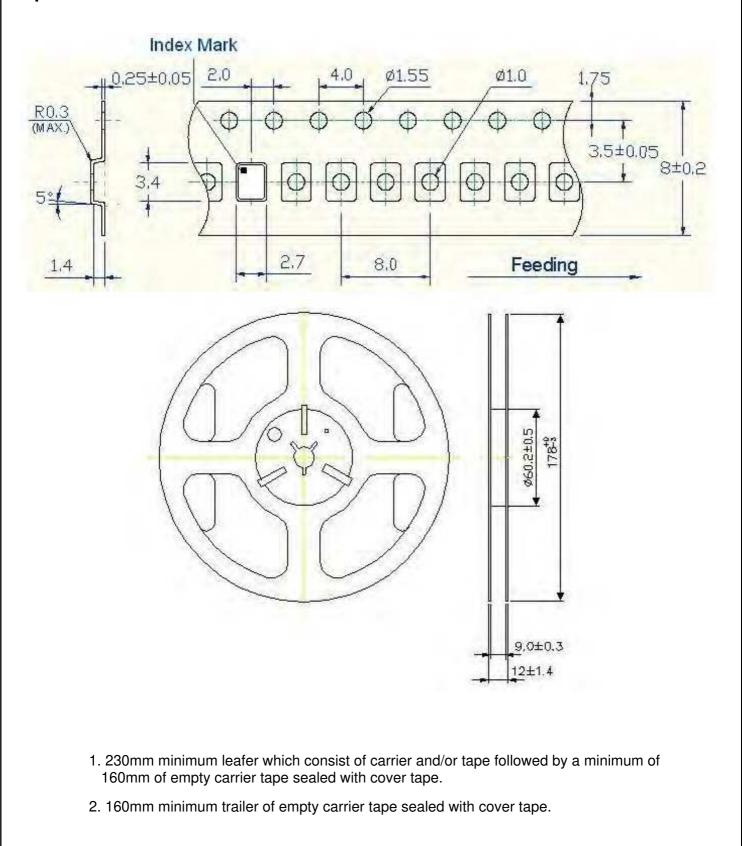




E0-R-4-014 Rev.E

TYPE FQ 3.2x2.5 GLASS SEALED CRYSTAL *FQ1200007* VER.A 30-MAY-13

Tape & Reel





TYPE FQ 3.2x2.5 GLASS SEALED CRYSTAL FQ1200007

VER.A 30-MAY-13

PACKING

