

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

PSE Technology Corporation

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*RoHS Exemption *HF-Halogen Free

*REACH Compliant

A Company of PERICOM Semiconductor Corporation

FQ1200007

VER.A 30-MAY-13

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



FQ1200007

VER.A 30-MAY-13

ELECTRICAL SPECIFICATIONS

Item	Symbol	Specifications	Units	Notes
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



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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

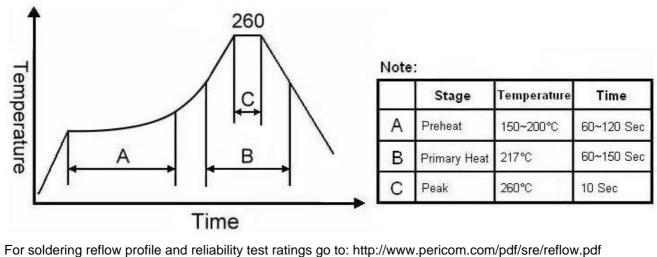
f)VIBRATION: JESD22-B103

g)SOLVENT RESISTANCE: JESD22-B107

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

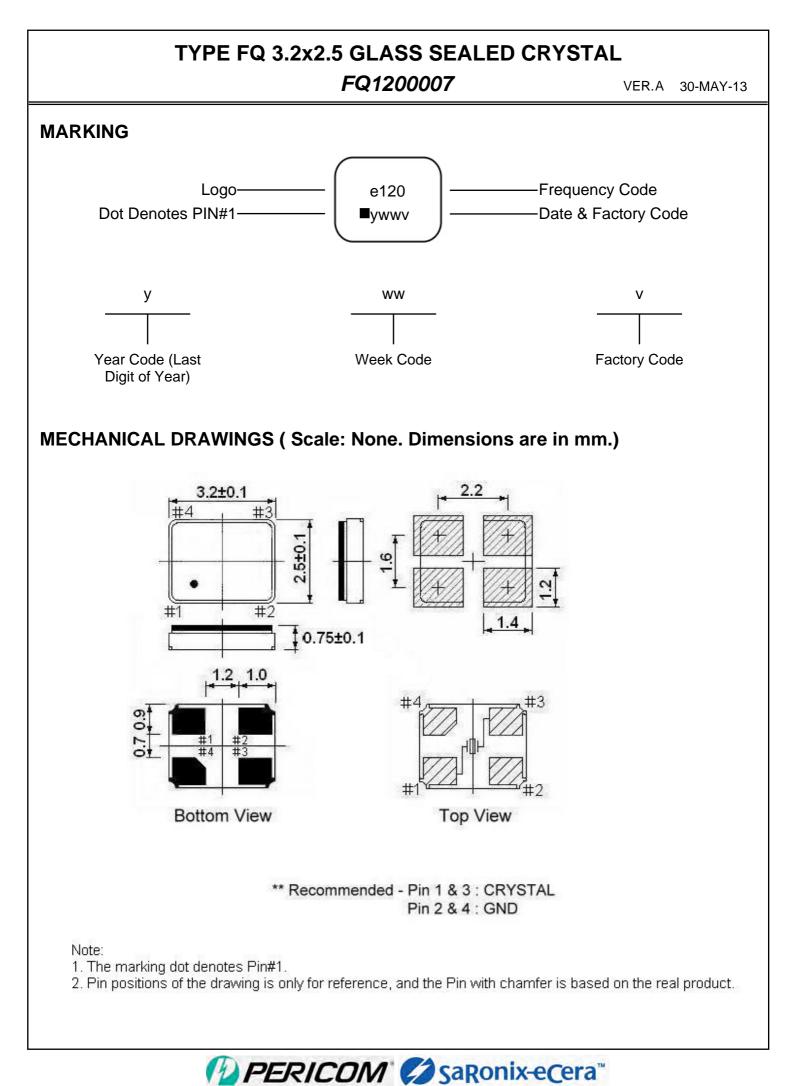
SUGGESTED IR REFLOW PROFILE

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



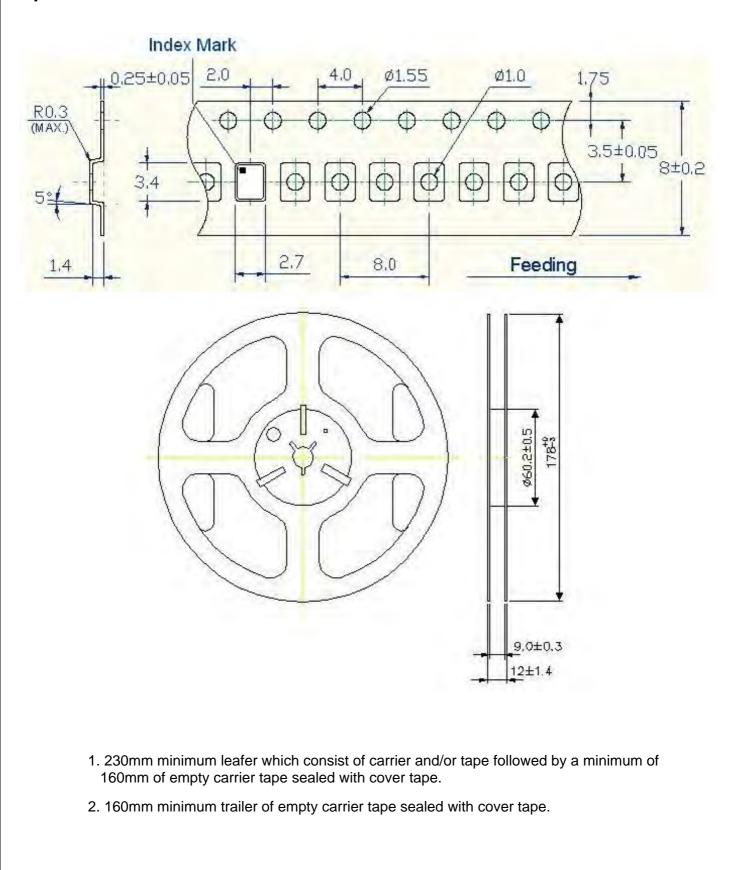
or soldering reflow profile and reliability test ratings go to: http://www.pericom.com/pdf/sre/reflow.pdf





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

Tape & Reel





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PACKING

