

PSE Technology Corporation

SPECIFICATION FOR APPROVAL

CUSTOMER				
NOMINAL FREQUENCY	38.400000 MHz			
PRODUCT TYPE	TYPE FW 2.0x1.6 SEAM SEALED CRYSTAL			
SPEC. NO. (P/N)	FW384WFIN1			
CUSTOMER P/N				
ISSUE DATE	June 22, 2016			
VERSION	Α			

APPROVED	PREPARED	QA
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APPROVED BY	AVL Status	
Please return one copy wi	th approval to PSE-TW	

PSE Technology Corporation

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http://www.saronix-ecera.com.tw

*Pb-free

*RoHS Compliant

*HF-Halogen Free

*REACH Compliant

*** A company of 🖊



PERICOM Semiconductor Corporation ***

Pericom Internal Reference NO. FW3840024Z

E0-R-4-014 Rev. E

TYPE FW 2.0x1.6 SEAM SEALED CRYSTAL FW384WFIN1

VER. A 22-Jun-16

VERSION HISTORY

Verision No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
Α	Jun.22,2016			Initial Release	

FW384WFIN1

VER. A 22-Jun-16

ELECTRICAL SPECIFICATIONS

Symbol	Specifications	Units	Notes
Fn	38.400000 MHz		
MO	AT Cut-Fundamental		
CL	7	pF	
FL	±10	ppm	at 27°C±3°C
TR	-30 to +90	°C	
F/T	±12	ppm	Reference to the Frequency at 27°C
	10	μW	
	200	μW	Max.
ESR	60	Ω	Max
C0	2	pF	Max
	±3	ppm	Max, 1st year
	-55 to +125	°C	
	500	МΩ	Min
	Fn MO CL FL TR F/T ESR	Fn 38.400000 MO AT Cut-Fundamental CL 7 FL ±10 TR -30 to +90 F/T ±12 10 200 ESR 60 C0 2 ±3 -55 to +125	Fn 38.400000 MHz MO AT Cut-Fundamental PF CL 7 pF FL ±10 ppm TR -30 to +90 °C F/T ±12 ppm 10 μW 200 μW ESR 60 Ω C0 2 pF ±3 ppm -55 to +125 °C

★ 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).

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RELIABILITY SPECIFICATIONS

MECHANICAL AND ENVIRONMENTAL RATINGS:

a) FINE LEAK TEST: JESD22-A109 (Condition 1A) (3x10⁻⁹ Pa m³/s)

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

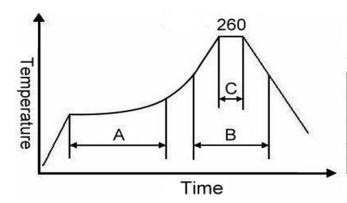
f) VIBRATION: JESD22-B103

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
Α	Preheat	150~200°C	60~120 Sec
В	Primary Heat	217°C	60~150 Sec
С	Peak	260°C	10 Sec

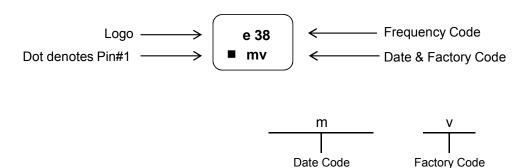
For soldering reflow profile and reliability test ratings go to: http://www.pericom.com/pdf/sre/reflow.pdf

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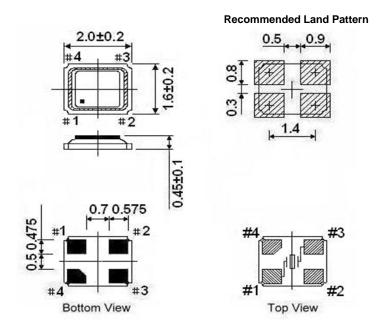
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MARKING



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



** Recommended - Pin 1 & 3: CRYSTAL Pin 2 & 4: GND

Notes:

- 1. Package drawings are for reference only, and the appearances of objects may vary. Actual packages are based on the real product.
- 2. The marking dot denotes Pin#1.
- 3. The position and shape of the chamfer pin may vary and are based on the real product.

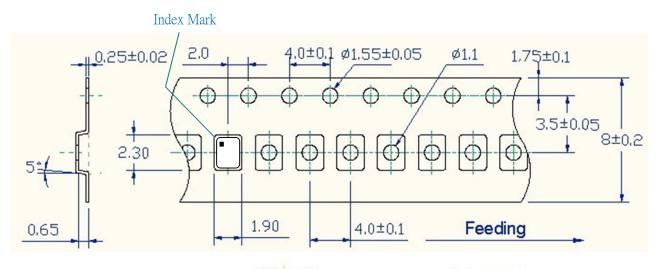


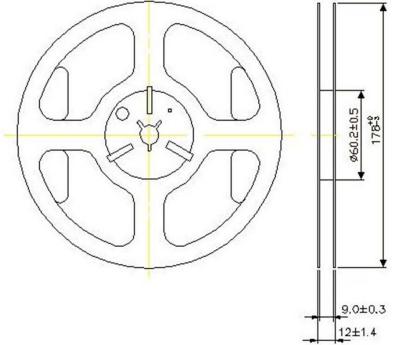
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Tape & Reel





- 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.

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TYPE FW 2.0x1.6 SEAM SEALED CRYSTAL FW384WFIN1 VER. A 22-Jun-16 **PACKING Begin** Start **End** 3000pcs-Product Tape Inner Packing Carton Storeroom Label Blue Qualified Label Storeroom Storeroom Label Deliver Packing Carton (L29*W24*H30) Green Qualified Label



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