

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!



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## PERICOM® SaRonix-eCera®

## **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	А

APPROVED	PREPARED	QA
Brenda	Vikbi Lu	Dong Jang
APPROVED BY CUSTOMER:		AVL Status
Please return one copy with 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	
					1
					1

### FW384WFIN1

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#### **ELECTRICAL SPECIFICATIONS**

Symbol	Specifications	Units	Notes
Fn	38.400000	MHz	
МО	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<sup>-9</sup> Pa m<sup>3</sup>/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

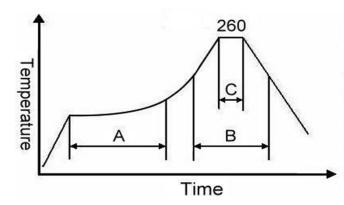
g) SOLVENT RESISTANCE: JESD22-B107

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

Note:

#### SUGGESTED IR REFLOW PROFILE

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



	Stage	Temperature	Time	
Α	Preheat	150~200°C	60~120 Se	

 A
 Preheat
 150~200°C
 60~120 Sec

 B
 Primary Heat
 217°C
 60~150 Sec

 C
 Peak
 260°C
 10 Sec

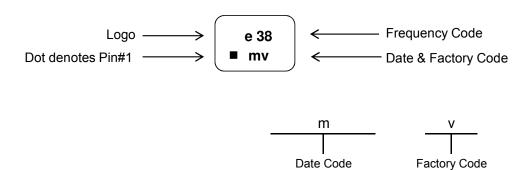
For soldering reflow profile and reliability test ratings go to: <a href="http://www.pericom.com/pdf/sre/reflow.pdf">http://www.pericom.com/pdf/sre/reflow.pdf</a>

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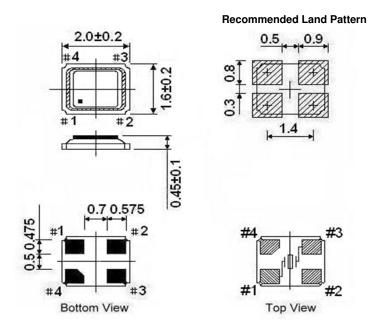
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#### **MARKING**



#### 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.

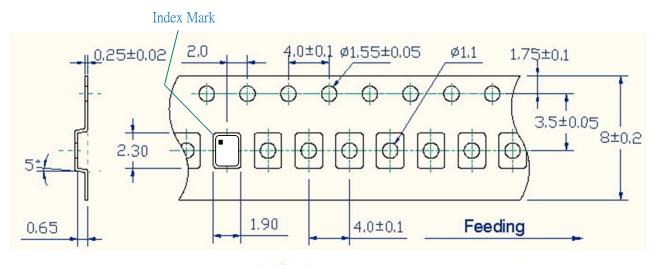


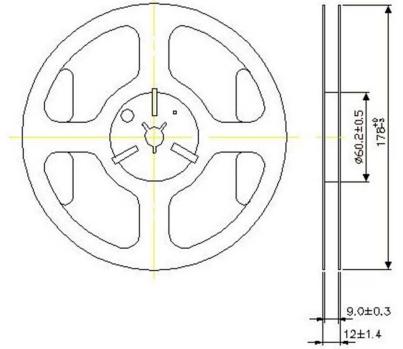
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#### Tape & Reel





- 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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