

# PSE Technology Corporation SPECIFICATION FOR APPROVAL

CUSTOMER	
NOMINAL FREQUENCY	38.400000 MHz
PRODUCT TYPE	TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL
SPEC. NO. ( P/N )	FL384WFIN1
CUSTOMER P/N	
ISSUE DATE	June 23, 2016
VERSION	A

APPROVED	PREPARED	QA
Brenda	Clane	Dong Jang
APPROVED BY	AVL Status	
Please return one copy w	vith 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. FL3840020Z

E0-R-4-014 Rev. E

FL384WFIN1

VER. A 23-Jun-16

## **VERSION HISTORY**

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
Α	Jun.23,2016			Initial Release	

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#### **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	
ESR	60	Ω	Max
C0	5	pF	Max
	±3	ppm	Max, 1st year
	-55 to +125	°C	
	500	ΜΩ	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 5  ±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         5         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)

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

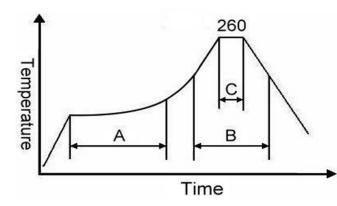
g) SOLVENT RESISTANCE: JESD22-B107

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



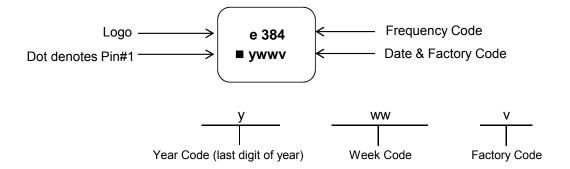
	Stage	Temperature	Time
Α	Preheat	150~200°C	60~120 Sec
В	Primary Heat	217°C	60~150 Sec
C	Peak	260°C	10 Sec

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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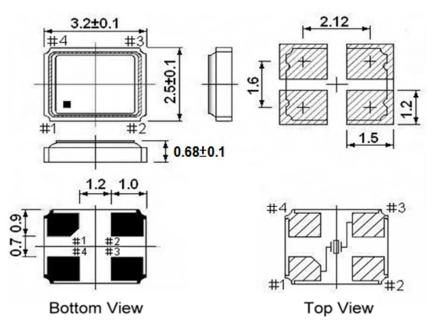
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#### **MARKING**



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

#### **Recommended Land Pattern**



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

#### Notes:

- 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.

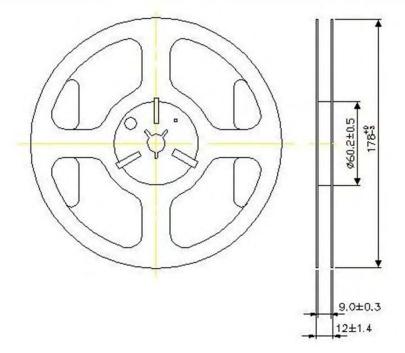


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## Tape & Reel

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- 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.

