

PSE Technology Corporation

SPECIFICATION FOR APPROVAL

CUSTOMER		
NOMINAL FREQUENCY	40.000000 MHz	
PRODUCT TYPE	TYPE FW 2.0x1.6 SEAM SEALED CRYSTAL	
SPEC. NO. (P/N)	FW400WFMR1	
CUSTOMER P/N		
ISSUE DATE	June 20, 2016	
VERSION	A	

APPROVED	PREPARED	QA
Brenda	Nikhi Lu	Dong Jang
APPROVED BY CUSTOMER:		AVL Status
Please return one copy wi	th 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

*Pb-free

*RoHS Compliant

*HF-Halogen Free

*REACH Compliant

*** A company of 🖊



PERICOM Semiconductor Corporation ***

Pericom Internal Reference NO. FW4000028Z

E0-R-4-014 Rev. E

FW400WFMR1

VER. A 20-Jun-16

VERSION HISTORY

Verision No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
Α	Jun.20,2016			Initial Release	

FW400WFMR1

VER. A 20-Jun-16

ELECTRICAL SPECIFICATIONS

Symbol	Specifications	Units	Notes
Fn	40.000000	MHz	
MO	AT Cut-Fundamental		
CL	10	pF	
FL	±10	ppm	at 25°C±3°C
TR	-20 to +85	°C	
F/T	±10	ppm	Reference to the Frequency at 25°C
	10	μW	
	100	μW	Max.
ESR	40	Ω	Max
C0	3	pF	Max
	±3	ppm	Max, 1st year
	-55 to +125	°C	
	500	ΜΩ	Min
	Fn MO CL FL TR F/T ESR	Fn 40.000000 MO AT Cut-Fundamental CL 10 FL ±10 TR -20 to +85 F/T ±10 10 100 ESR 40 C0 3 ±3 -55 to +125	Fn 40.000000 MHz MO AT Cut-Fundamental PF CL 10 pF FL ±10 ppm TR -20 to +85 °C F/T ±10 ppm 10 µW 100 µW ESR 40 Ω C0 3 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).

FW400WFMR1

VER. A 20-Jun-16

RELIABILITY SPECIFICATIONS

MECHANICAL AND ENVIRONMENTAL RATINGS:

a) FINE LEAK TEST: JESD22-A109 (Condition 1A) $(3x10^{-9} Pa m^3/s)$

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

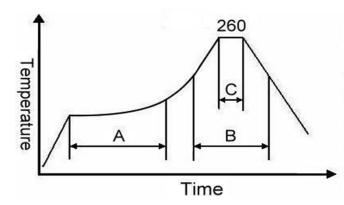
g) SOLVENT RESISTANCE: JESD22-B107

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	
1920	387. 439	-18 S	

	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

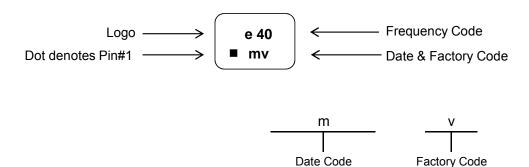
For soldering reflow profile and reliability test ratings go to: http://www.pericom.com/pdf/sre/reflow.pdf

E0-R-4-014 Rev. E Page 2

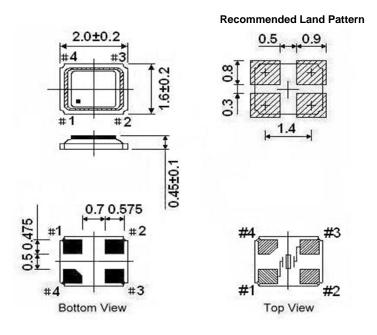
FW400WFMR1

VER. A 20-Jun-16

MARKING



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



** 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.

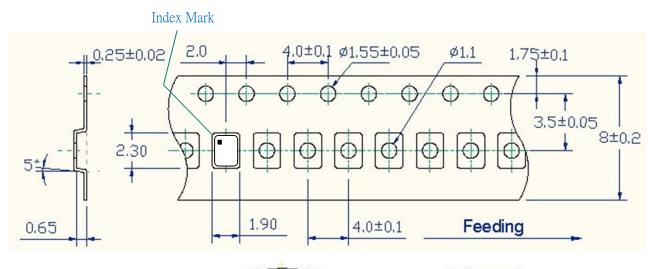


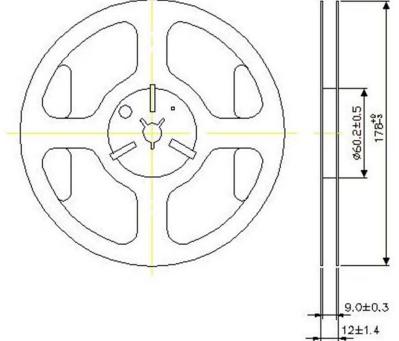
E0-R-4-014 Rev. E Page 3

FW400WFMR1

VER. A 20-Jun-16

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.

E0-R-4-014 Rev. E Page 4

TYPE FW 2.0x1.6 SEAM SEALED CRYSTAL FW400WFMR1 VER. A 20-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



E0-R-4-014 Rev. E Page 5