

PSE Technology Corporation

SPECIFICATION FOR APPROVAL

CUSTOMER	
NOMINAL FREQUENCY	52.000000 MHz
PRODUCT TYPE	TYPE FW 2.0x1.6 SEAM SEALED CRYSTAL
SPEC. NO. (P/N)	FW520WFMT1
CUSTOMER P/N	
ISSUE DATE	June 21, 2016
VERSION	Α

APPROVED	PREPARED	QA
Brenda	Nikbi Lu	Dong Yang
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. FW5200002Z

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TYPE FW 2.0x1.6 SEAM SEALED CRYSTAL FW520WFMT1

VER. A 21-Jun-16

VERSION HISTORY

Verision No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
Α	Jun.21,2016			Initial Release	

FW520WFMT1

VER. A 21-Jun-16

ELECTRICAL SPECIFICATIONS

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	52.000000	MHz	
Mode of Oscillation	МО	AT Cut-Fundamental		
Calibration Load Capacitance	CL	12	pF	
Calibration Tolerance	FL	±7	ppm	at 25°C±3°C
Operating Temperature Range	TR	-40 to +100	°C	
Frequency Stability (Frequency Deviation over the Operating Temperature Range)	F/T	±17	ppm Reference to the Frequency at 25°C	
Operating Drive Level		100	μW	
Maximum Drive Level		200	μW	Max.
Equivalent Series Resistance	ESR	30	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	МΩ	Min

★ 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

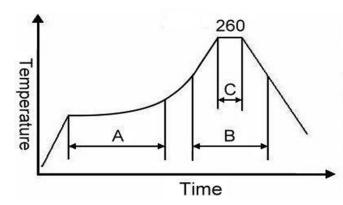
f) VIBRATION: JESD22-B103

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

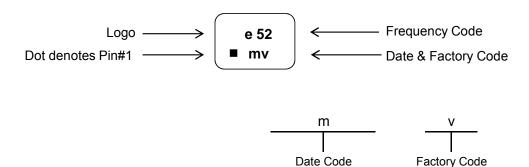
For soldering reflow profile and reliability test ratings go to: http://www.pericom.com/pdf/sre/reflow.pdf

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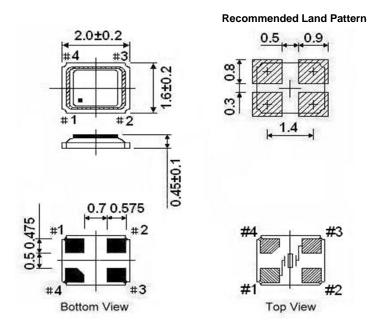
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MARKING



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.

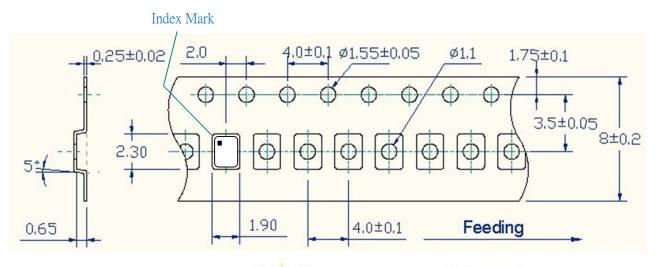


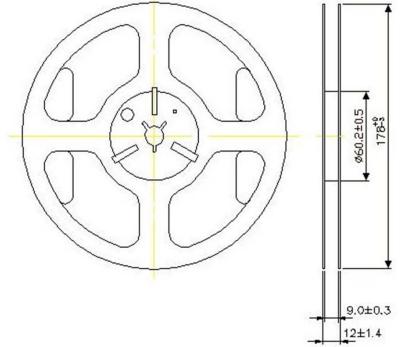
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Tape & Reel





- 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 FW520WFMT1 VER. A 21-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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