

PSE Technology Corporation

SPECIFICATION FOR APPROVAL

CUSTOMER			
NOMINAL FREQUENCY	19.200000 MHz		
PRODUCT TYPE	TYPE FW 2.0x1.6 SEAM SEALED CRYSTAL		
SPEC. NO. (P/N)	FW1920001		
CUSTOMER P/N			
ISSUE DATE	August 16, 2012		
VERSION	D		

APPROVED	PREPARED	QA
Brenda	Niklai Lu	Bedayeri
APPROVED BY CUSTOMER:		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 ***

FW1920001

VER. D 16-Aug-12

VERSION HISTORY

Verision No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
Α	May.13,2009			Initial Release	
В	Dec.24,2010			Changed Logo	
С	Jan.17,2011			Revise Format	
D	Aug.16,2012			Changed tolerance in mechanical drawing	

E0-R-4-014 Rev. E

FW1920001

VER. D 16-Aug-12

ELECTRICAL SPECIFICATIONS

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	19.200000	MHz	
Mode of Oscillation	MO	AT Cut-Fundamental		
Calibration Load Capacitance	CL	8	pF	
Calibration Tolerance	FL	±10	ppm	at 25°C±3°C
Operating Temperature Range	TR	-20 to +70	°C	
Frequency Stability (Frequency Deviation over the Operating Temperature Range)	F/T	±10	ppm	Reference to the Frequency at 25°C
Operating Drive Level		10	μW	
Maximum Drive Level		100	μW	Max.
Equivalent Series Resistance	ESR	150	Ω	Max
Shunt Capacitance	C0	5	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).

FW1920001

VER. D 16-Aug-12

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

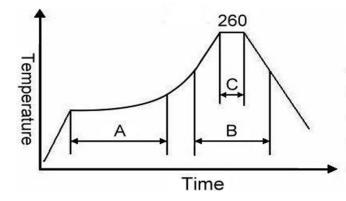
f) VIBRATION: JESD22-B103

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	

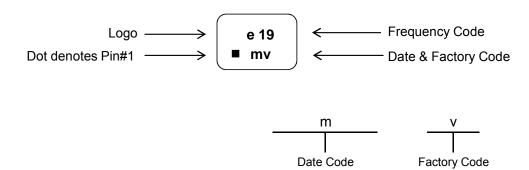
For soldering reflow profile and reliability test ratings go to: http://www.pericom.com/pdf/sre/reflow.pdf

PERICOM[®] SaRonix-eCera[®]

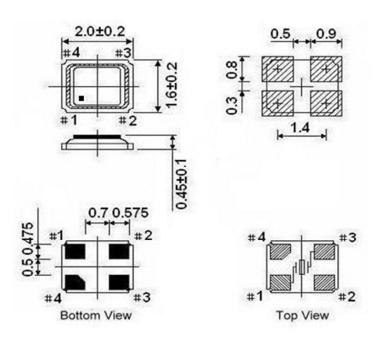
FW1920001

VER. D 16-Aug-12

MARKING



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



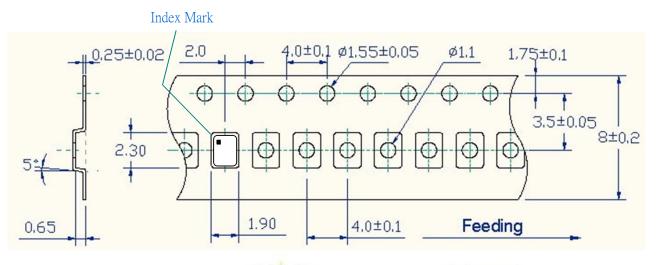
** Recommended - Pin 1 & 3 : CRYSTAL Pin 2 & 4 : GND

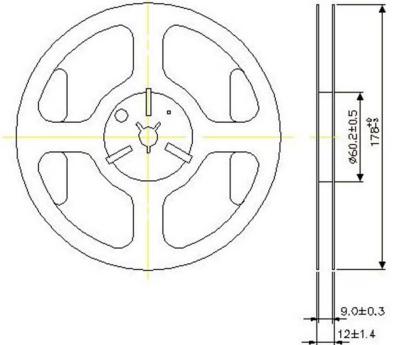
Note:

- 1. The marking dot denotes Pin#1.
- 2. Pin positions of the drawing is only for reference, and the Pin with chamfer is based on the real product.



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.



TYPE FW 2.0x1.6 SEAM SEALED CRYSTAL FW1920001 VER. D 16-Aug-12 **PACKING Begin** Start **End** 3000pcs-Product Tape Inner Packing Carton Blue Qualified Label Storeroom Label Storeroom Label Storeroom Label Deliver Packing Carton (L29*W24*H30) Green Qualified Label



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Diodes Incorporated: FW1920001