PERICON Saronix-ecera PSE Technology Corporation							
SPECIFICATION FOR APPROVAL							
CUSTOMER							
NOMINAL FREQUENCY		24.000000 MHz					
PRODUCT TYPE	TYPE FJ 2	TYPE FJ 2.5x2.0 SEAM SEALED CRYSTAL CLOCK OSCILLATOR					
SPEC. NO. (P/N)		FJ2400011					
CUSTOMER P/N							
ISSUE DATE		October 12, 2012					
VERSION		Α					
APPROVED	PREP	ARED	QA				

Alan Yang	Brenda	Bedayiri					
APPROVED BY	AVL Status						
Please return one copy with approval to PSE-TW PSE Technology Corporation							
No.2, Tzu-Chiang 5th Rd, Chung Li	*Dh. fra.	*Pb-free					
Chung Li City, Taoyuan County, Ta		Compliant					
TEL: 886-3-451-8888 FAX: 886-3-461-3865	*HF-Ha	logen Free					
http://www.saronix-ecera.com.tw	*REACI	H Compliant					
*** A company of 😰 PERICOM Semiconductor Corporation ***							

FJ2400011

VER. A 12-Oct-12

VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
А	Oct.12,2012			Initial Release	



E0-R-4-014 Rev. E

FJ2400011

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ELECTRICAL SPECIFICATIONS

SRe Part Number : FJ2400011

ltem	Item Symbol Specifications L		Units	Notes		
Nominal Frequency	Fo	24.000000	MHz			
Frequency Stability	FT	± 50	ppm	**See note		
Operating Temperature Range	TR	-40 to +85	°C			
Supply Voltage	V _{DD}	+3.3V ± 10%	V			
Logic Type	LT	LVCMOS				
Supply Current, Output Enabled	I _{DD} /OE	10	mA	Мах		
Supply Current, Output Disabled	I _{DD} /OD	10	μA	Мах		
Duty Cycle (Symmetry)	DC/SY	45 / 55	%	Measured 50% of Waveform		
Rise / Fall Time	T _R /T _F	5	ns	Max. measured 10 / 90% of Waveform		
Output Voltage "0" Level	V _{OL}	10% V _{DD}	V	Мах		
Output Voltage "1" Level	V _{OH}	90% V _{DD}	V	Min		
Output Load	CL	15	pF	Мах		
Jitter, Phase	RMS(1-σ)	1.5	ps	Max. 12KHz ~ 5MHz Frequency Band		
Jitter, Accumulated	RMS(1-σ)	5	ps	Typ. 20,000 Consecutive Periods		
Jitter, Peak to Peak	Pk-Pk	50	ps	Max. 100,000 Random Periods		
Start Up Time		10	ms	Max.		
Storage Temperature Range		-55°C to +125°C	°C			

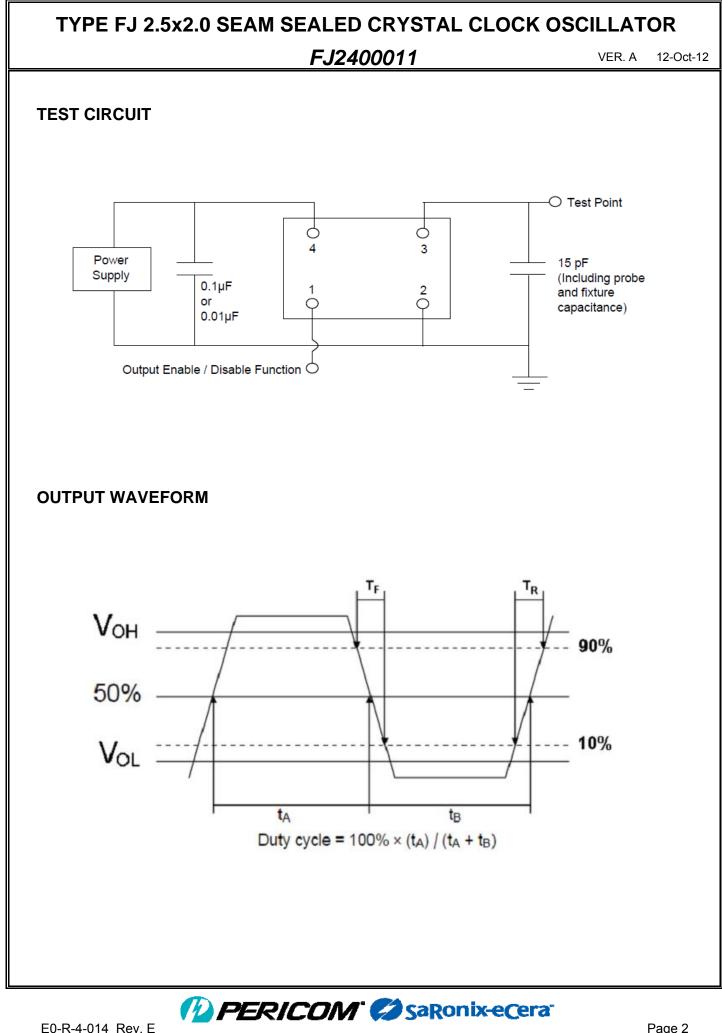
* This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb - Free).

**Stability includes all combinations of Operating Temperature, Load changes, rated Input (Supply) Voltage changes, Initial Calibration Tolerance (25°C), Aging (1 year at 25°C Average Effective Ambient Temperature), Shock and Vibration.

Output Enable / Disable Function

Parameter	Min.	Тур.	Max.	Units	Notes
Input Voltage (Pin1), Output Enable	$0.7V_{DD}$			V	Or Open
Input Voltage (Pin1), Output Disable (low power standby)			$0.3V_{\text{DD}}$	V	Output is Hi-Z
Internal Pullup Resistance	30			KΩ	
Output Disable Delay			50	ns	





FJ2400011

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RELIABILITY SPECIFICATIONS

ENVIRONMENTAL:

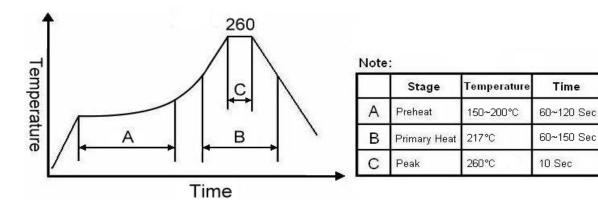
- a) THERMAL SHOCK: MIL-STD-883, Method 1011, Condition A
- b) MOISTURE RESISTANCE: MIL-STD-883, Method 1004
- c) VIBRATION: MIL-STD-883, Method 2007, Condition A
- d) RESISTANCE TO SOLDERING HEAT: J-STD-020D Table 5-2 Pb-free devices (except 2 cycles max)
- e) HAZARDOUS SUBSTANCE: Pb free and RoHS/Green Compliant.

MECHANICAL:

- a) SHOCK: MIL-STD-883, Method 2002, Condition B
- b) SOLDERABILITY: JESD22-B102-D Method 2 (Preconditioning E)
- c) TERMINAL STRENGTH: MIL-STD-883, Method 2004, Test Condition D
- d) GROSS LEAK: MIL-STD-883, Method 1014, Condition C
- e) FINE LEAK: MIL-STD-883, Method 1014, Condition A2, R1=2x10⁻⁸ atm cc/s
- f) SOLVENT RESISTANCE: MIL-STD-202, Method 215

SUGGESTED IR REFLOW PROFILE

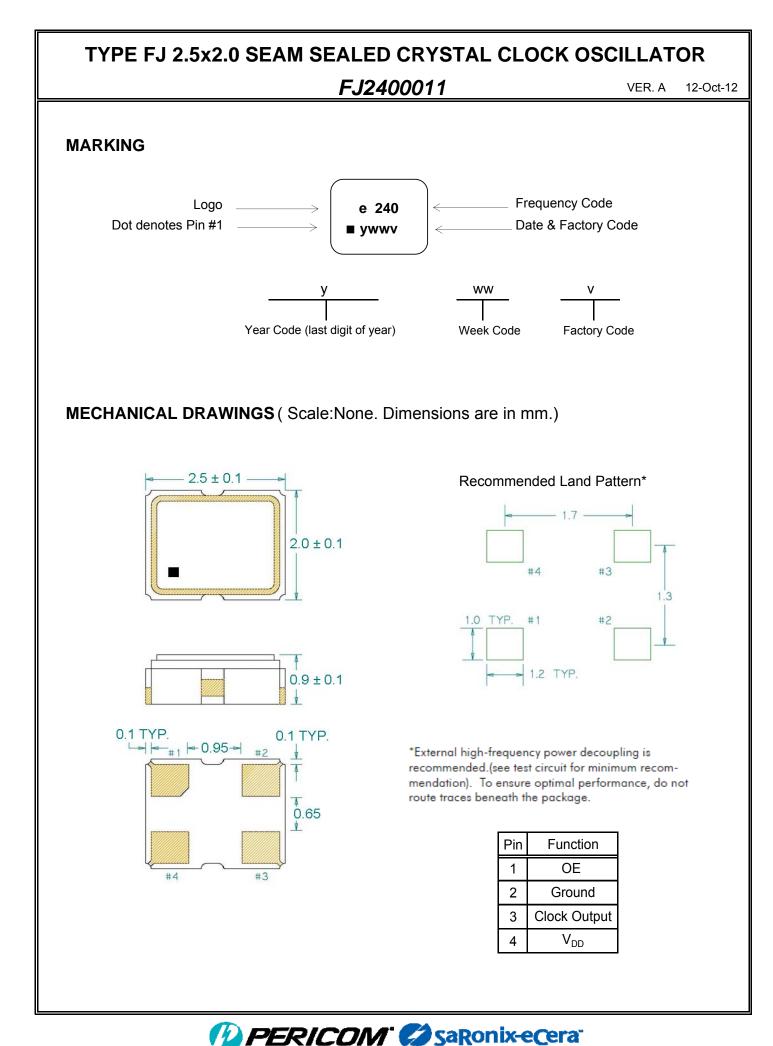
*As per IPC-JEDEC J-STD-020D



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

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PERICOM SaRonix-eCera

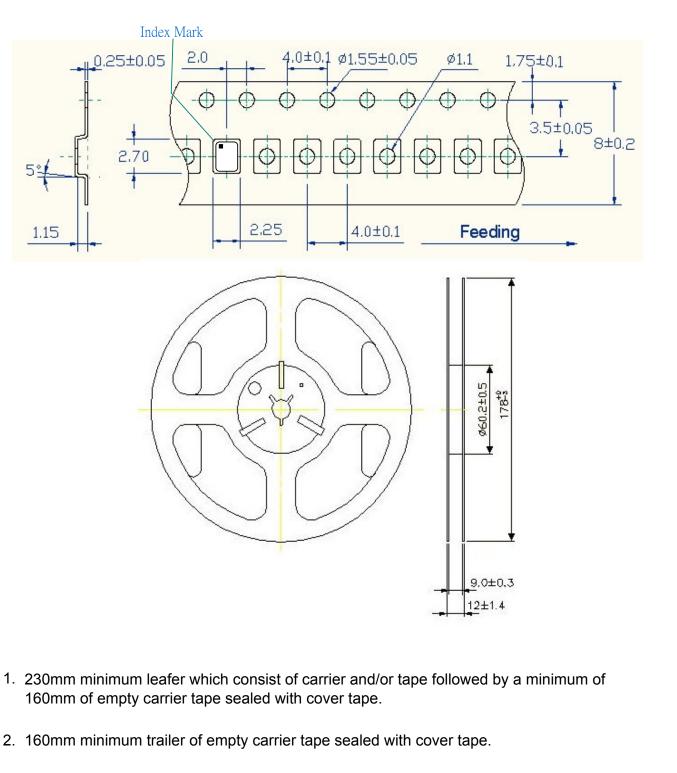


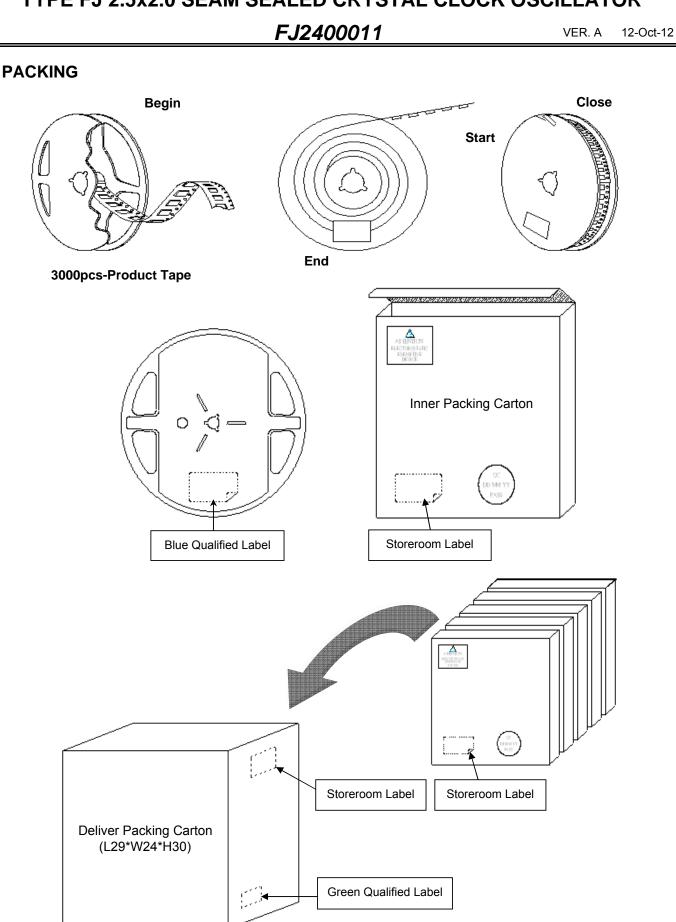
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TAPE & REEL







E0-R-4-014 Rev. E