imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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PERICON Saronix-ecera PSE Technology Corporation SPECIFICATION FOR APPROVAL				
CUSTOMER				
NOMINAL FREQUENCY	100.0	100.000000 MHz		
PRODUCT TYPE	TYPE PX 7.0x5.0 SEAM SEA	TYPE PX 7.0x5.0 SEAM SEALED CRYSTAL CLOCK OSCILLATOR		
SPEC. NO. (P/N)	PX	PXA000010		
CUSTOMER P/N				
ISSUE DATE	Apri	April 18, 2011		
VERSION		В		
Abn Lang	Brenda	QA Canthu		
APPROVED BY	APPROVED BY CUSTOMER :			

Please return one copy with 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 ***

PXA000010

VER. B 18-Apr-11

VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
A	Aug.25,2010			Initial Release	
В	Apr.18,2011			Added Start up time: 10ms max & Updated Suggested IR Reflow Profile	



PXA000010

VER. B 18-Apr-11

ELECTRICAL SPECIFICATIONS

SRe Part Number : PXA000010

Item	Symbol	Specifications	Units	Notes	
Nominal Frequency	Fo	100.000000	MHz		
Frequency Stability	FT	± 50	ppm	**See note	
Operating Temperature Range	TR	-20 to +70	°C		
Supply Voltage	V _{CC}	+3.3 ± 10.0%	V		
Logic Type	LT	LVDS			
Supply Current, Output Enabled	I _{CC} /OE	75	mA	Max.	
Supply Current, Output Disabled	I _{CC} /OD	30	uA	Max.	
Duty Cycle (Symmetry)	DC/SY	45 / 55	%	Measured 50% of Waveform	
Rise / Fall Time	T _R /T _F	850	ps	Max. measured 20/80% of Waveform	
Output Voltage "0" Level	V _{OL}	1.10 / 0.9	V	Typ. / Min.	
Output Voltage "1" Level	V _{OH}	1.43 / 1.6	V	Typ. / Max.	
Output Load		100Ω & 5pF LVDS			
Jitter, Phase	RMS(1-σ)	1	ps	Max. 12KHz ~ 20MHz Frequency Band	
Jitter, Accumulated	RMS(1-σ)	4	ps	Typ. 20,000 Consecutive Periods	
Jitter, Peak to Peak	Pk-Pk	40	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 (5 years at 40°C Average Effective Ambient Temperature), Shock and Vibration.

Output Enable / Disable Function

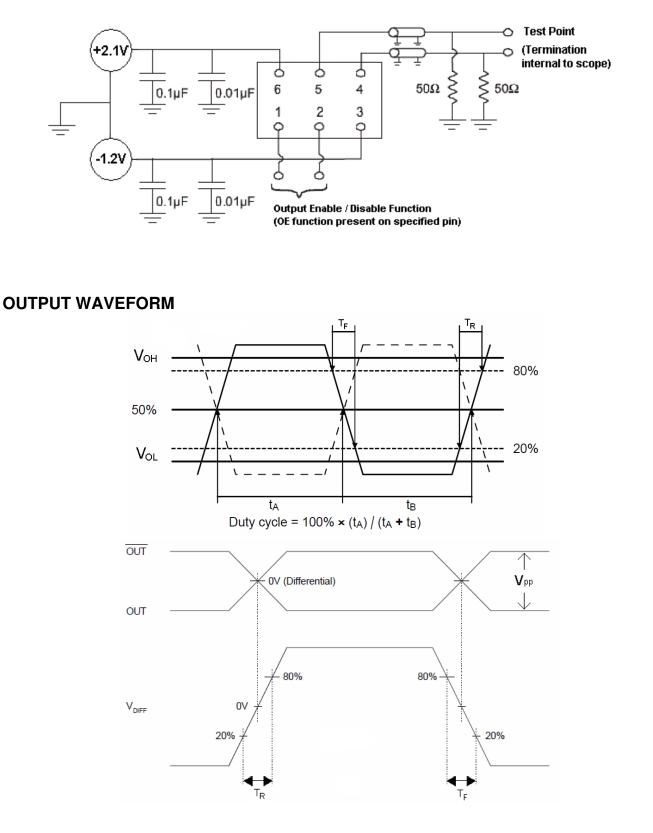
Parameter	Min.	Тур.	Max.	Units	Notes
Input Voltage (Pin1), Output Enable	$0.7V_{CC}$			V	Or Open
Input Voltage (Pin1), Output Disable (low power standby)			$0.3V_{CC}$	V	Output is Hi-Z
Output Disable Delay			200	ns	
Output Enable Delay			2	ms	

PERICOM SaRonix-eCera

PXA000010

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PXA000010

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RELIABILITY SPECIFICATIONS

ENVIRONMENTAL:

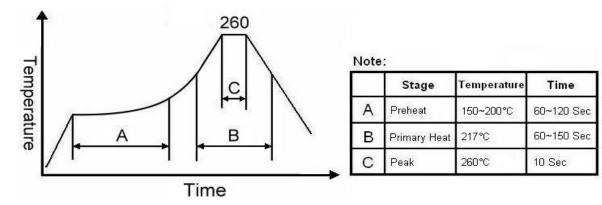
- a) THERMAL SHOCK: MIL-STD-883, Method 1011, Condition A
- b) MOISTURE RESISTANCE: MIL-STD-883, Method 1004
- c) VIBRATION: MIL-STD-883, Method 2007, Condition A
- d) RESISTANCE TO SOLDERING HEAT: J-STD-020D Table 5-2 Pb-free devices (except 2 cycles max)
- e) HAZARDOUS SUBSTANCE: Pb free and RoHS/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

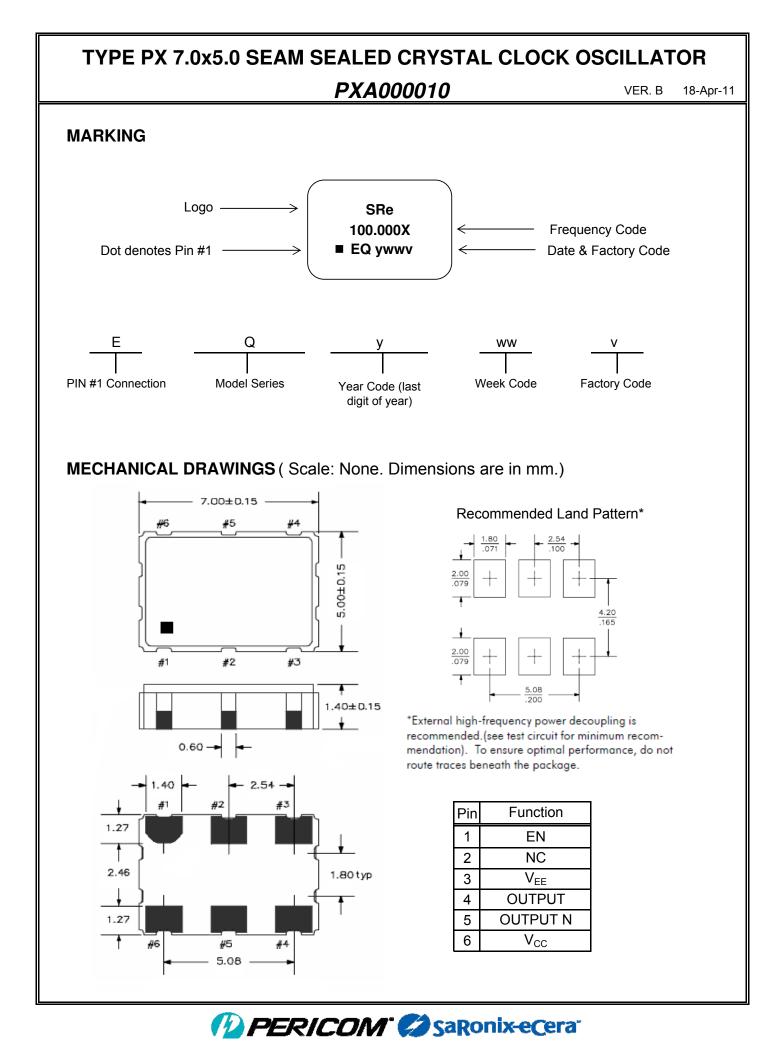
SUGGESTED IR REFLOW PROFILE

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



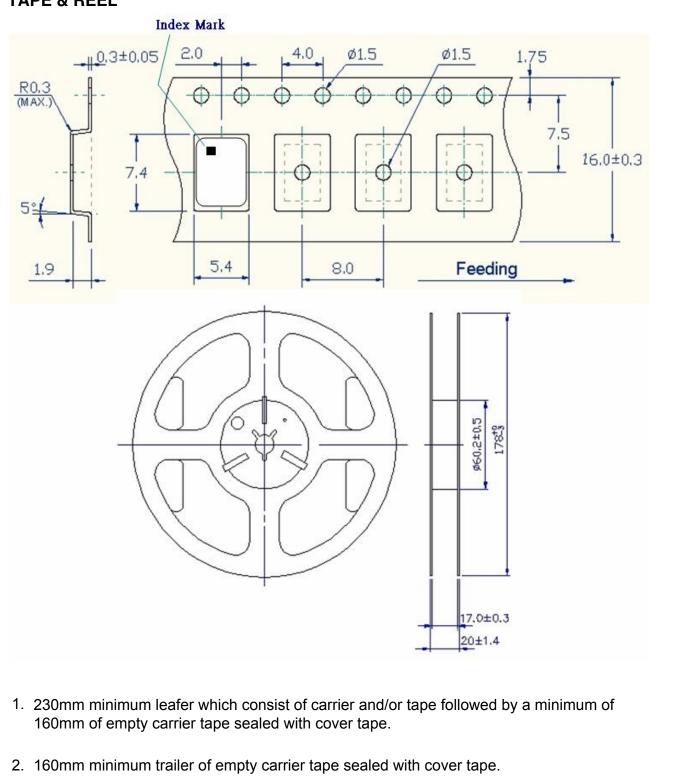
For soldering reflow profile and reliability test ratings go to: http://www.pericom.com/pdf/sre/reflow.pdf





TYPE PX 7.0x5.0 SEAM SEALED CRYSTAL CLOCK OSCILLATOR PXA000010 VER. B 18-Apr-11

TAPE & REEL

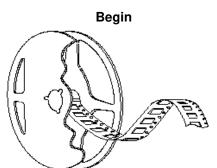




PXA000010

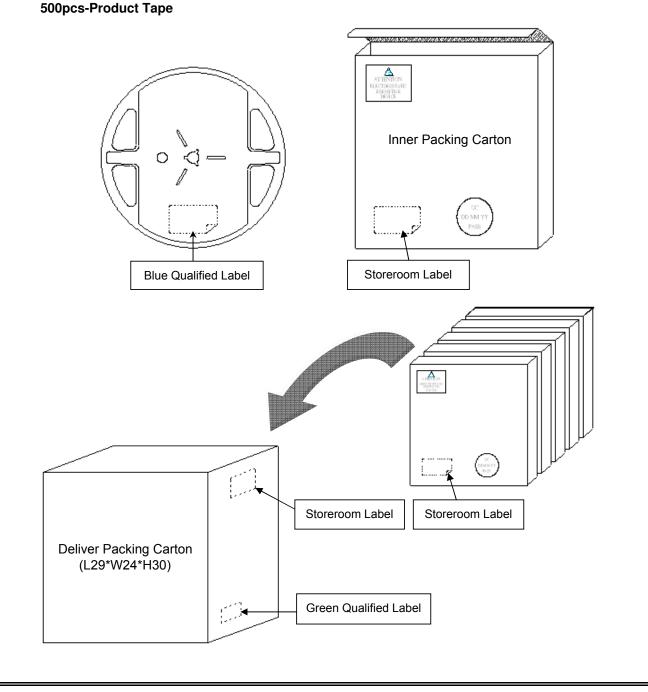
VER. B 18-Apr-11

PACKING



Start

End



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