PERICOM [®] Saronix-ecera [®] PSE Technology Corporation SPECIFICATION FOR APPROVAL							
CUSTOMER							
NOMINAL FREQUENCY	156.250000 MHz						

PRODUCT TYPE

TYPE NX 7.0x5.0 SEAM SEALED CRYSTAL CLOCK OSCILLATOR

SPEC. NO. (P/N)

CUSTOMER P/N

ISSUE DATE

VERSION

NX72F6208Z

February 26, 2015

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APPROVED	PREPARED	QA				
Brenda	Nikbi Lu	Dong Jang				
APPROVED BY C	AVL Status					
Please return one copy with approval to PSE-TW PSE Technology Corporation						
No.2, Tzu-Chiang 5th Rd, Chung Li I	o-free					
TEL: 886-3-451-8888		RoHS Compliant				
FAX: 886-3-461-3865 http://www.saronix-ecera.com.tw	IF-Halogen Free					
*** A company of 😰 I		EACH Compliant				

NX72F6208Z

VER. A 26-Feb-15

VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
А	Feb.26,2015			Initial Release	



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ELECTRICAL SPECIFICATIONS

SRe Part Number : NX72F6208Z

Item	Symbol	Specifications	Units	Notes		
Nominal Frequency	Fo	156.250000	MHz			
Frequency Stability	FT	± 50	ppm	**See note		
Operating Temperature Range	TR	-20 to +70	°C			
Supply Voltage	V _{cc}	+3.3 ± 5.0%	V			
Logic Type	LT	LVPECL				
Supply Current, Output Enabled	I _{CC} /OE	80	mA	Max.		
Supply Current, Output Disabled	I _{CC} /OD	40	mA	Max.		
Duty Cycle (Symmetry)	DC/SY	45 / 55	%	Measured 50% of Waveform		
Rise / Fall Time	T _R /T _F	400	ps	Max. measured 20/80% of Waveform		
Output Voltage "0" Level	V _{OL}	V _{CC} -1.55V	V	Max.		
Output Voltage "1" Level	V _{OH}	V _{CC} -1.2V	V	Min.		
Output Load		50 Ω to $~V_{CC}$ -2V				
Jitter, Phase	RMS	0.6	ps	Max. 12KHz ~ 20MHz Frequency Band		
Jitter, Phase	RMS	2.8	ps	Max. 10Hz ~ 1MHz Frequency Band		
Jitter, Accumulated	RMS(1-σ)	6	ps	Max. 20,000 Consecutive Periods		
Jitter, Peak to Peak	Pk-Pk	40	ps	Max. 100,000 Random Periods		
Storage Temperature Range		-55 to +125	°C			

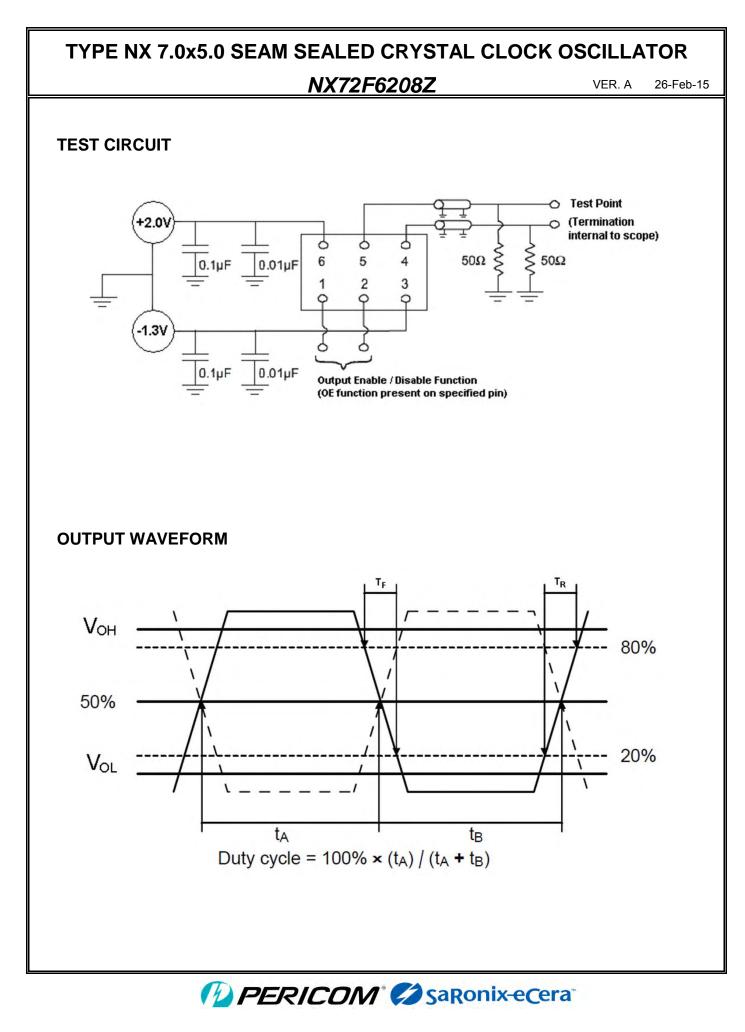
* This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb - Free).

**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	$0.7V_{CC}$			V	Or Open
Input Voltage (Pin1), Output Disable (low power standby)			$0.3V_{CC}$	V	Output is Hi-Z
Output Disable Delay			100	ns	
Output Enable Delay			100	ns	
Start Up Time			10	ms	





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RELIABILITY SPECIFICATIONS

ENVIRONMENTAL:

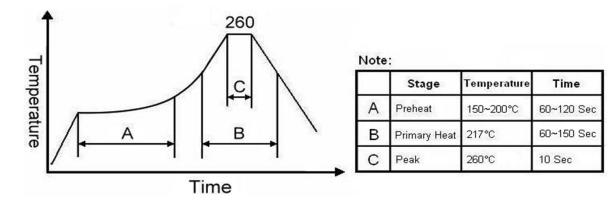
- a) THERMAL SHOCK: MIL-STD-883, Method 1011, Condition A
- b) MOISTURE RESISTANCE: MIL-STD-883, Method 1004
- c) VIBRATION: MIL-STD-883, Method 2007, Condition A
- d) RESISTANCE TO SOLDERING HEAT: J-STD-020D Table 5-2 Pb-free devices (except 2 cycles max)
- e) HAZARDOUS SUBSTANCE: Pb free and RoHS/Green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

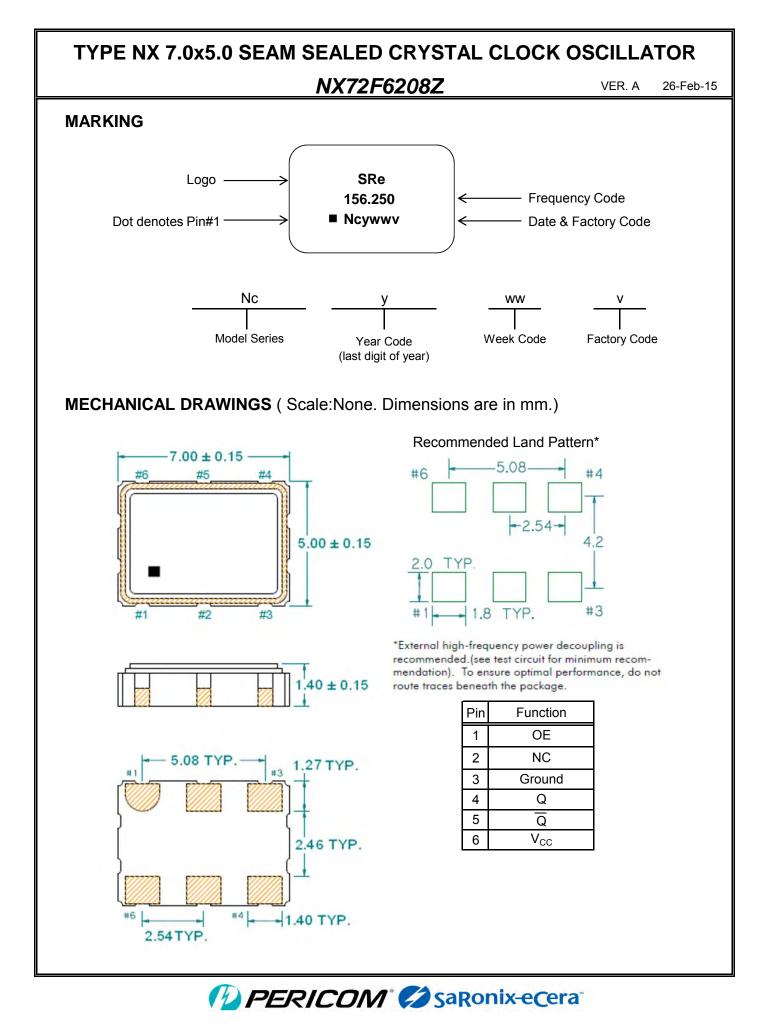
SUGGESTED IR REFLOW PROFILE

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



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

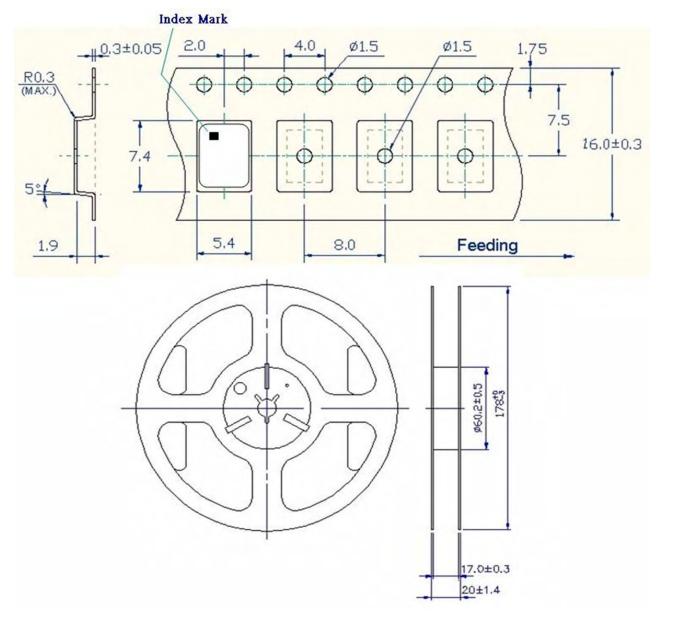
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TAPE&REEL



- 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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PACKING

