

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)	NX72F6208Z
CUSTOMER P/N	
ISSUE DATE	February 26, 2015
VERSION	Α

APPROVED	PREPARED	QA
Brenda	Nikli Lu	Dong Jang
APPROVED BY (APPROVED BY CUSTOMER:	
Please return one copy wit	h 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 ***

NX72F6208Z

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VERSION HISTORY

Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
Feb.26,2015			Initial Release	
	Date	Date Date		



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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		50Ω 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).

Output Enable / Disable Function

Parameter	Min.	Тур.	Max.	Units	Notes
Input Voltage (Pin1), Output Enable	0.7V _{CC}			٧	Or Open
Input Voltage (Pin1), Output Disable (low power standby)			0.3V _{CC}	٧	Output is Hi-Z
Output Disable Delay			100	ns	
Output Enable Delay			100	ns	
Start Up Time			10	ms	

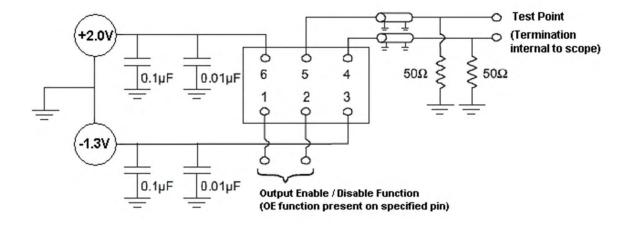


^{**}Stability includes all combinations of Operating Temperature, Load changes, rated Input (Supply) Voltage changes, Initial Calibration Tolerance (25°C), Aging (1 year at 25°C Average Effective Ambient Temperature), Shock and Vibration.

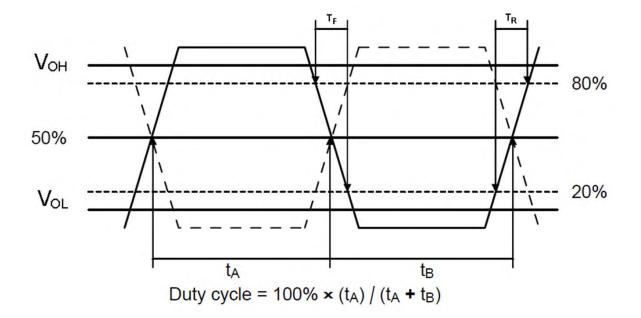
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TEST CIRCUIT



OUTPUT WAVEFORM





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RELIABILITY SPECIFICATIONS

ENVIRONMENTAL:

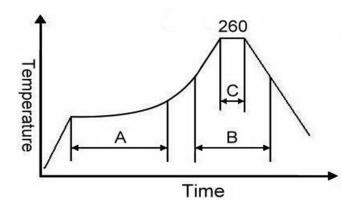
- a) THERMAL SHOCK: MIL-STD-883, Method 1011, Condition A
- b) MOISTURE RESISTANCE: MIL-STD-883, Method 1004
- c) VIBRATION: MIL-STD-883, Method 2007, Condition A
- d) RESISTANCE TO SOLDERING HEAT: J-STD-020D Table 5-2 Pb-free devices (except 2 cycles max)
- e) HAZARDOUS SUBSTANCE: Pb free and RoHS/Green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



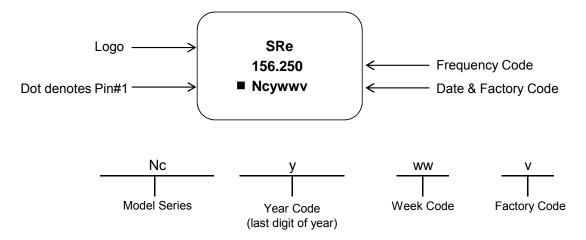
	Stage	Temperature	Time
Α	Preheat	150~200°C	60~120 Sec
В	Primary Heat	217°C	60~150 Sec
С	Peak	260°C	10 Sec

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

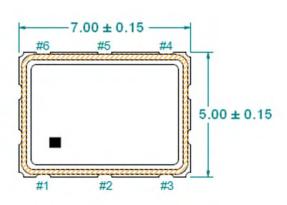
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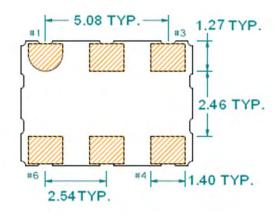
MARKING



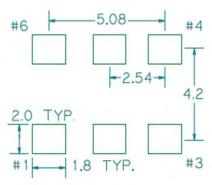
MECHANICAL DRAWINGS (Scale:None. Dimensions are in mm.)







Recommended Land Pattern*



*External high-frequency power decoupling is recommended.(see test circuit for minimum recommendation). To ensure optimal performance, do not route traces beneath the package.

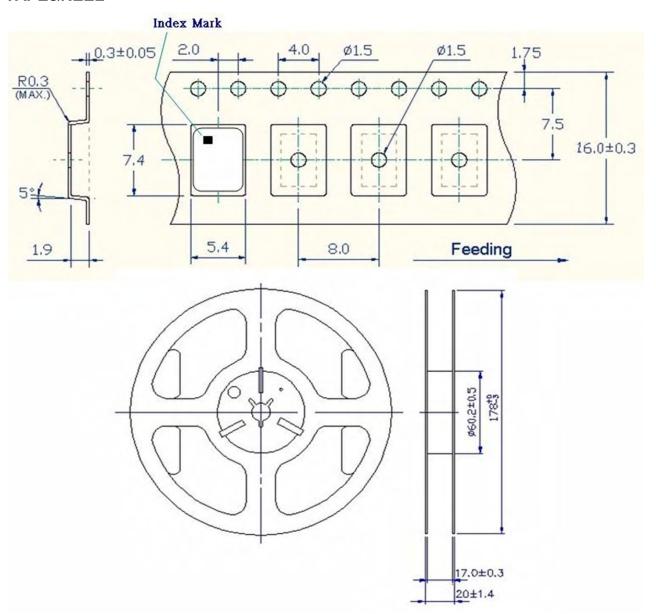
Pin	Function
1	OE
2	NC
3	Ground
4	Q
5	Q
6	V_{CC}



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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.



NX72F6208Z VER. A 26-Feb-15 **PACKING Begin** Start **End 500pcs-Product Tape** Inner Packing Carton Blue Qualified Label Storeroom Label Storeroom Label Storeroom Label **Deliver Packing Carton** (L29*W24*H30) Green Qualified Label



单击下面可查看定价,库存,交付和生命周期等信息

>>Diodes Incorporated(达迩科技(美台))