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PERICOM[®] SaRonix-ecera[®]

PSE Technology Corporation

SPECIFICATION FOR APPROVAL

CUSTOMER	
NOMINAL FREQUENCY	25.000000 MHz
HOLDER TYPE	TYPE HX 3.2x2.5 SEAM SEALED CRYSTAL CLOCK OSCILLATOR
SPEC. NO. (P/N)	HX3125006Q
CUSTOMER P/N	
ISSUE DATE	August 11, 2015
VERSION	A

APPROVED	PREPARED	QA	
Brenda	Clane	Dong Jang	
APPROVED BY	APPROVED BY CUSTOMER:		
Please return one copy v	vith 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
- *AEC-Q200 Compliant



*** A company of PERICOM Semiconductor Corporation ***

HX3125006Q

VER. A 11-Aug-15

VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
Α	Aug.11,2015			Initial Release	

HX3125006Q

VER. A 11-Aug-15

ELECTRICAL SPECIFICATIONS

SRe Part Number: HX3125006Q

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fo	25.000000	MHz	
Frequency Stability	FT	± 30	ppm	**See note
Operating Temperature Range	TR	-40 to +105	°C	
Supply Voltage	V_{DD}	+3.3 ± 5.0%	V	
Logic Type	LT	LVCMOS		
Supply Current, Output Enabled	I _{DD} /OE	20	mA	Max.
Supply Current, Output Disabled	I _{DD} /OD	100	μΑ	Max.
Duty Cycle (Symmetry)	DC/SY	45 / 55	%	Measured 50% of Waveform
Rise / Fall Time	T _R /T _F	8	ns	Max. measured 20/80% of Waveform
Output Voltage "0" Level	V _{OL}	10% V _{DD}	V	Max at I _{OL} = 4.0mA Min.
Output Voltage "1" Level	V _{OH}	90% V _{DD}	V	Min at I _{OH} = -4.0mA Max.
Output Load	CL	15	pF	Max.
Jitter, Phase	RMS	1	ps	Max. 12KHz ~ 5MHz Frequency Band
Jitter, Accumulated	RMS(1-σ)	4	ps	Max. 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 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

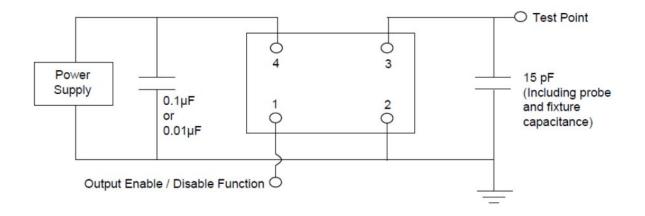
Parameter	Min.	Тур.	Max.	Units	Notes
Input Voltage (Pin1), Output Enable	$0.7V_{DD}$			V	Or Open
Input Voltage (Pin1), Output Disable (low power standby)			$0.3V_{DD}$	V	Output is Hi-Z
Internal Pullup Resistance	30			ΚΩ	
Output Disable Delay			50	ns	
Output Enable Delay			50	us	



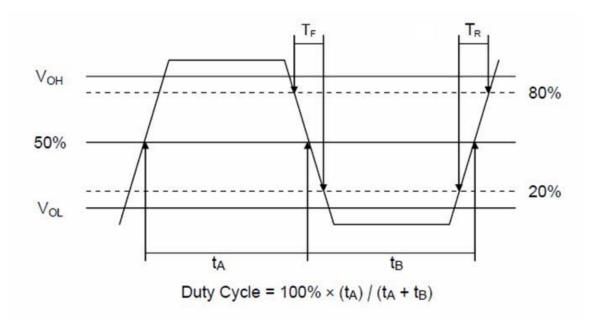
^{**}Stability includes all combinations of Operating Temperature, Load changes, rated Input (Supply) Voltage changes, Initial Calibration Tolerance (25°C), Aging (1 year at 25°C Average Effective Ambient Temperature), Shock and Vibration.

VER. A 11-Aug-15

TEST CIRCUIT



OUTPUT WAVEFORM



HX3125006Q VER. A 11-Aug-15

AEC-Q200 RELIABILITY TEST SPECIFICATIONS:

1. Initial

1.1 Physical Dimensions: JESD22, Method JB1-100

1.2 External Visual: MIL-STD-883, Method 2009

1.3 Freq. Vs. Temperature: Per Specification/Datasheet

2. Mechanical

2.1 Mechanical Shock: MIL-STD-202 Method 213

2.2 Vibration: MIL-STD-202 Method 204

2.3 Solderability: J-STD-020

2.4 Board Flex: AEC Q200-005

2.5 Terminal Strength (SMD): AEC Q200-006

3. Environmental

3.1 Temp Cycle: JESD22, Method JA-104

3.2 Resistance to Solder Heat: MIL-STD-202 Method 210

3.3 High Temperature Operating Life: MIL-STD-202, Method 108

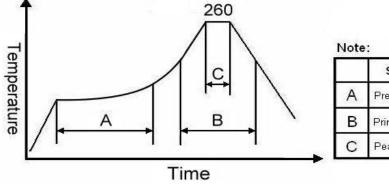
3.4 High Temp: MIL-STD-202, Method 108

3.5 High Temp & High Humidity: MIL-STD-202, Method 103

3.6 Thermal Shock: MIL-STD-202, Method 107

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

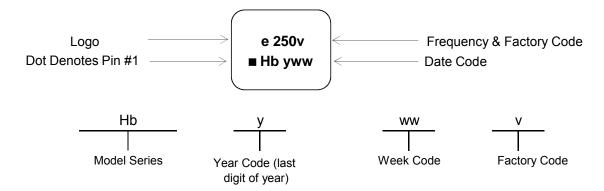
For soldering reflow profile and reliability test ratings go to: http://www.pericom.com/pdf/sre/reflow.pdf

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HX3125006Q

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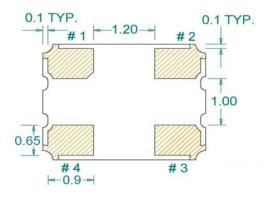
MARKING



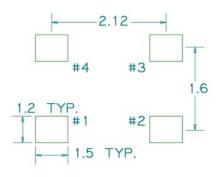
MECHANICAL DRAWINGS (Scale: None. Dimensions are in mm.)

3.2 ± 0.1 2.5 ± 0.1





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.

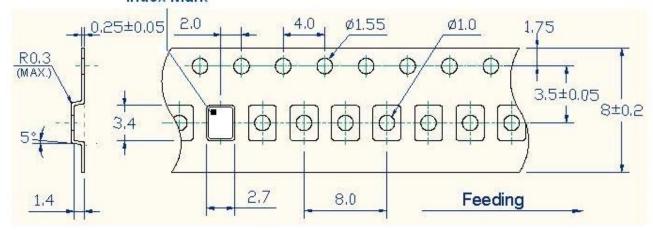
Pin	Function
1	OE
2	Ground
3	Clock Output
4	V_{DD}

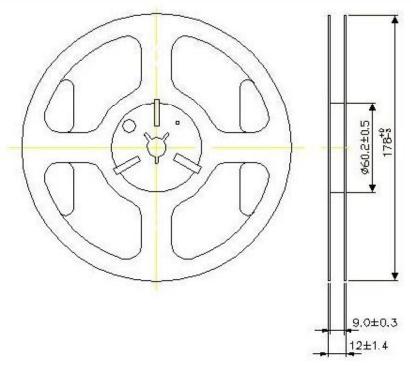
TYPE HX 3.2x2.5 SEAM SEALED CRYSTAL CLOCK OSCILLATOR HX3125006Q VER. A

11-Aug-15

TAPE&REEL

Index Mark





- 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.



