

SPECIFICATION FOR APPROVAL

CUSTOMER

NOMINAL FREQUENCY

25.000000 MHz

PRODUCT TYPE

SPEC. NO. (P/N)

CUSTOMER P/N

ISSUE DATE

April 16, 2015

TYPE FN 7.0x5.0 SEAM SEALED CRYSTAL CLOCK OSCILLATOR

FN2500264Z

VERSION

Α

APPROVED	PREPARED	QA			
Brenda	Nifbi Lu	Dong Yang			
APPROVED BY	CUSTOMER :	AVL Status			
	with approval to PSE-TW				
PSE Technology Corpor	*Dh. fre	۵			
No.2, Tzu-Chiang 5th Rd, Chung Li Chung Li City, Taoyuan County, Ta		*RoHS Compliant			
TEL: 886-3-451-8888 FAX: 886-3-461-3865		logen Free			
http://www.saronix-ecera.com.tw		H Compliant			
*** A company of 😰	PERICOM Semicond	uctor Corporation ***			

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VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
А	Apr.16,2015			Initial Release	

PERICOM[®] SaRonix-eCera[®]

FN2500264Z

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ELECTRICAL SPECIFICATIONS

SRe Part Number : FN2500264Z

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fo	25.000000	MHz	
Frequency Stability	FT	± 50	ppm	**See note
Operating Temperature Range	TR	-20 to +70	°C	
Supply Voltage	V _{DD}	+3.3 ± 10.0%	V	
Logic Type	LT	LVCMOS		
Supply Current, Output Enabled	I _{DD} /OE	15	mA	Max.
Supply Current, Output Disabled	I _{DD} /OD	10	μA	Max.
Duty Cycle (Symmetry)	DC/SY	45 / 55	%	Measured 50% of Waveform
Rise / Fall Time	T _R /T _F	5	ns	Max. measured 20/80% of Waveform
Output Voltage "0" Level	V _{OL}	10% V _{DD}	V	Max.
Output Voltage "1" Level	V _{OH}	90% V _{DD}	V	Min.
Output Load	CL	15	pF	Мах
Jitter, Phase	RMS	1	ps	Max, 12KHz ~ 5MHz Frequency Band
Jitter, Accumulated	RMS(1-σ)	5	ps	Max, 20,000 Consecutive Periods
Jitter, Peak to Peak	Pk-Pk	50	ps	Max, 100,000 Random Periods
Start Up Time		10	ms	Мах
Storage Temperature Range		-55 to +125	°C	

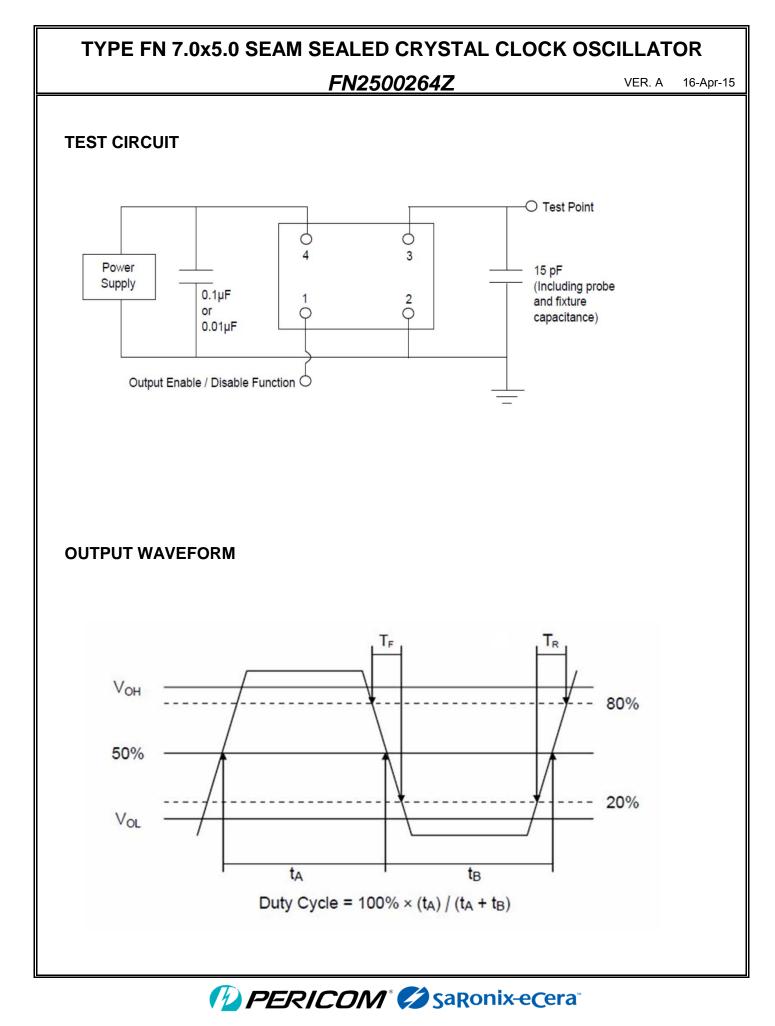
🗱 This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb - Free).

**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	$0.7V_{DD}$			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	
Output Enable Delay			50	us	





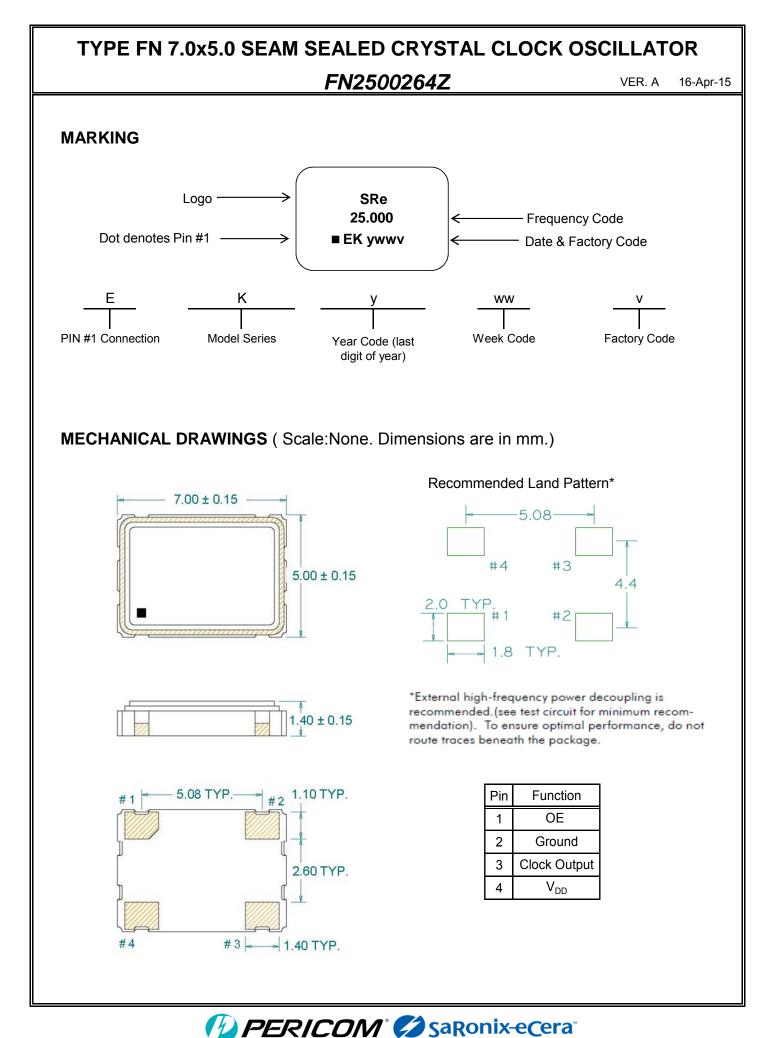
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RELIABILITY SPECIFICATIONS					
ENVIRONMENTAL:					
a) THERMAL SHOCK: MIL-STD-883, Method 1011, Condition	A				
b) MOISTURE RESISTANCE: MIL-STD-883, Method 1004					
c) VIBRATION: MIL-STD-883, Method 2007, Condition A					
 d) RESISTANCE TO SOLDERING HEAT: J-STD-020D Table 5-2 Pb-free devices (except 2 cycles max) 					
e) HAZARDOUS SUBSTANCE: Pb - free and RoHS Compliant	t.				
MECHANICAL:					
a) SHOCK: MIL-STD-883, Method 2002, Condition B					
b) SOLDERABILITY: JESD22-B102-D Method 2 (Preconditioni	ng E)				
c) TERMINAL STRENGTH: MIL-STD-883, Method 2004, Test	Condi	tion D			
d) GROSS LEAK: MIL-STD-883, Method 1014, Condition C	d) GROSS LEAK: MIL-STD-883, Method 1014, Condition C				
e) FINE LEAK: MIL-STD-883, Method 1014, Condition A2, R1=	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					
	Note	Stage	Temperature	Time	
Femperature	A	Preheat	150~200°C	60~120 Sec	
	В	Primary Heat	217°C	60~150 Sec	
	С	Peak	260°C	10 Sec	
Time					

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

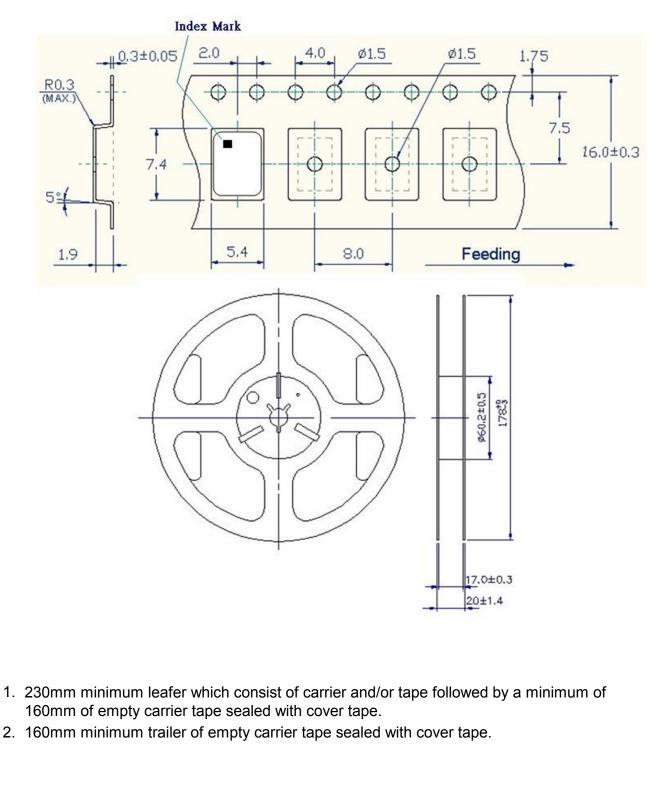




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TAPE&REEL



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