## TYPE FN 5.0x7.0 SEAM SEALED CRYSTAL CLOCK OSCILLATOR

### FN2500140

VER. B 5-Jul-12

### **ELECTRICAL SPECIFICATIONS**

SRe Part Number : FN2500140

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fo	25.000625	MHz	
Frequency Stability	FT	± 25	ppm	**See note
Operating Temperature Range	TR	-40 to +85	ĉ	
Supply Voltage	V <sub>DD</sub>	+2.5 ± 5.0%	V	
Logic Type	LT	CMOS		
Supply Current, Output Enabled	I <sub>DD</sub> /OE	10	mA	Max.
Supply Current, Output Disabled	I <sub>DD</sub> /OD	10	μA	Max.
Duty Cycle (Symmetry)	DC/SY	45 / 55	%	Measured 50% of Waveform
Rise / Fall Time	T <sub>R</sub> /T <sub>F</sub>	5	ns	Max. measured 10/90% of Waveform
Output Voltage "0" Level	V <sub>OL</sub>	10% V <sub>DD</sub>	V	Max.
Output Voltage "1" Level	V <sub>OH</sub>	90% V <sub>DD</sub>	V	Min.
Output Load	CL	15	pF	Мах
Start Up Time		10	ms	Мах
Storage Temperature Range		-55℃ to +125℃	ĉ	

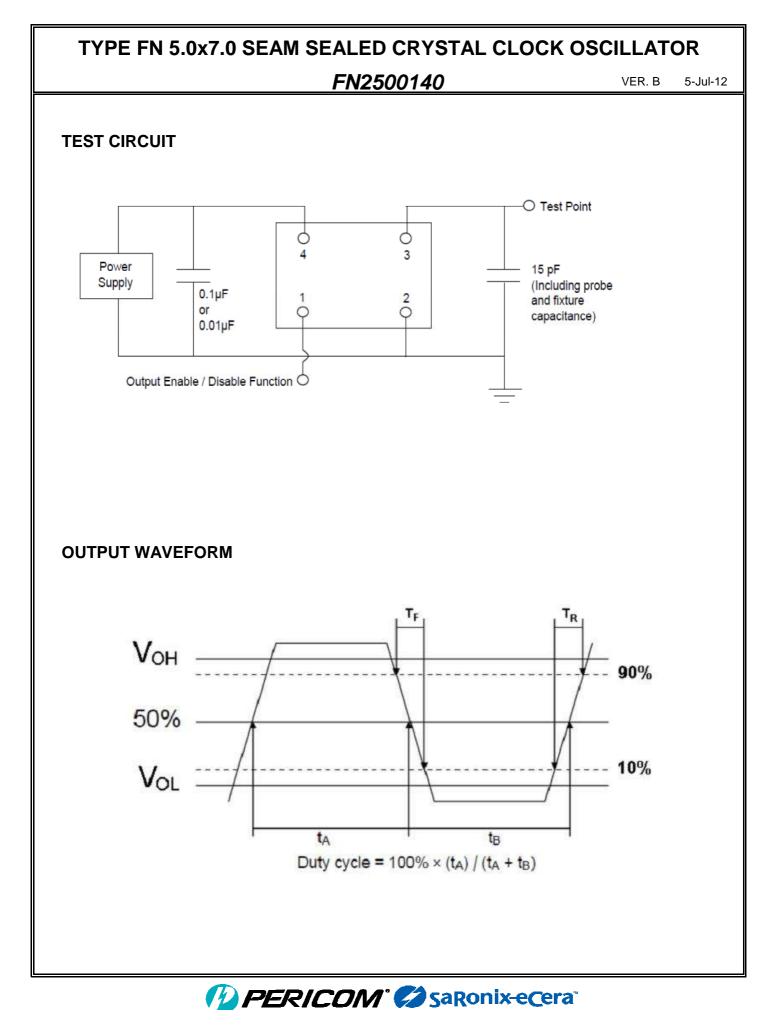
This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb - Free).

\*\*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)			$0.3V_{DD}$	V	Output is Hi-Z
Internal Pullup Resistance	30			KΩ	
Output Disable Delay			50	ns	





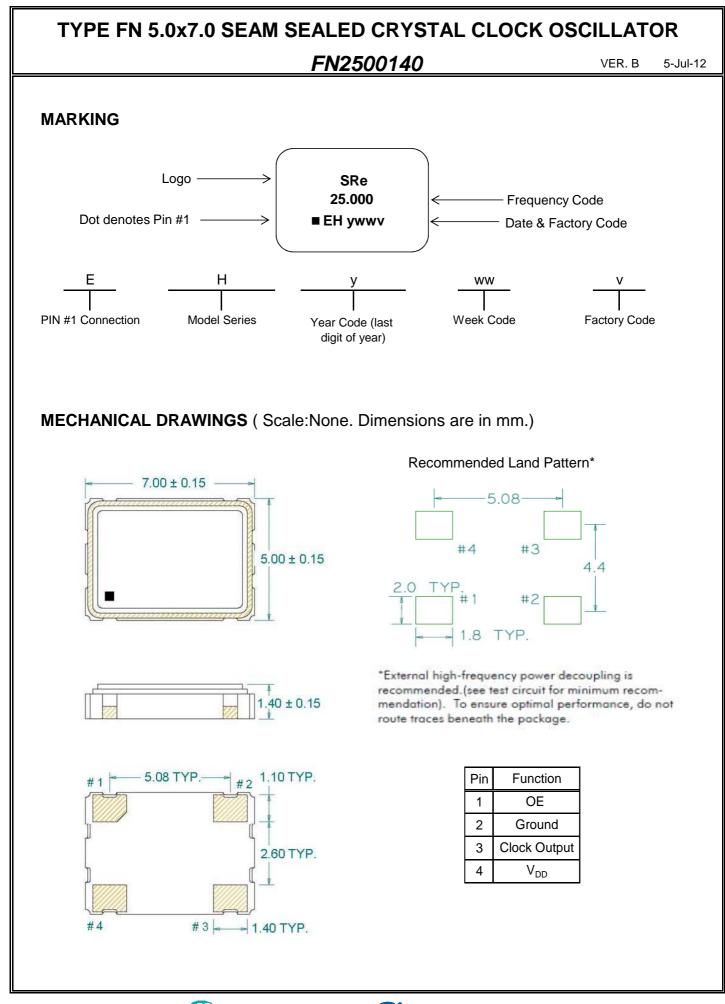
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<ul> <li>a) THERMAL SHOCK: MIL-STD-883, Method 1011, Condition</li> <li>b) MOISTURE RESISTANCE: MIL-STD-883, Method 1004</li> <li>c) VIBRATION: MIL-STD-883, Method 2007, Condition A</li> <li>d) RESISTANCE TO SOLDERING HEAT: J-STD-020D Table (except 2 cycles max)</li> </ul>	on A			
c) VIBRATION: MIL-STD-883, Method 2007, Condition A d) RESISTANCE TO SOLDERING HEAT: J-STD-020D Tab				
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	le 5-2 Pb	free devices		
e) HAZARDOUS SUBSTANCE: Pb - free and RoHS Compl	iant.			
MECHANICAL:				
a) SHOCK: MIL-STD-883, Method 2002, Condition B				
b) SOLDERABILITY: JESD22-B102-D Method 2 (Precondit	ioning E)			
c) TERMINAL STRENGTH: MIL-STD-883, Method 2004, Te	est Condit	ion D		
d) GROSS LEAK: MIL-STD-883, Method 1014, Condition C				
e) FINE LEAK: MIL-STD-883, Method 1014, Condition A2, F	R1=2x10 <sup>-8</sup>	' atm cc/s		
f) SOLVENT RESISTANCE: MIL-STD-202, Method 215				
UGGESTED IR REFLOW PROFILE As per IPC-JEDEC J-STD-020D	Note	:		
		Stage	Temperature	Time
Temperature	A B	Preheat Primary Heat	150~200°C 217°C	60~120 Sec 60~150 Sec
	C	Peak	260°C	10 Sec





PERICOM<sup>®</sup> SaRonix-eCera<sup>®</sup>

## **TYPE FN 5.0x7.0 SEAM SEALED CRYSTAL CLOCK OSCILLATOR** FN2500140 VER. B 5-Jul-12 **TAPE&REEL** Index Mark \_\_\_\_0.3±0.05 2.0 ø1.5 Ø1.5 1.75 .0 R0.3 $\oplus$ (MAX. 7.5 16.0±0.3 7.4 51 5.4 Feeding 8.0 1.9 Ø60.2±0.5 17849 17.0±0.3 20±1.4 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.



