PERICOM SaRonix-ecera PSE Technology Corporation								
SPECIFICATION								

CUSTOMER

NOMINAL FREQUENCY

PRODUCT TYPE

100.000000 MHz

TYPE FN 7.0x5.0 SEAM SEALED CRYSTAL CLOCK OSCILLATOR

FNA000077

SPEC. NO. (P/N)

CUSTOMER P/N

ISSUE DATE

VERSION

А

September 20, 2011

APPROVED	PREPARED	QA			
Brenda	Claine	Gather			
APPROVED BY	CUSTOMER :	AVL Status			
Please return one copy v	with approval to PSE-TW				
PSE Technology Corpor	ration				
No.2, Tzu-Chiang 5th Rd, Chung Li					
Chung Li City, Taoyuan County, Ta TEL: 886-3-451-8888	iwan (R.O.C.) *RoHS	Compliant			
FAX: 886-3-461-3865	*HF-Ha	logen Free			
http://www.saronix-ecera.com.tw	*REACI	*REACH Compliant			
*** A company of и PERICOM Semiconductor Corporation ***					

TYPE FN 7.0x5.0 SEAM SEALED CRYSTAL CLOCK OSCILLATOR

FNA000077

VER. A 20-Sep-11

VERSION HISTORY

Version No.	Version Date	Version Customer Receipt Supplier Receipt Date Date		Description	Notes	
А	Sep.20,2011			Initial Release		

PERICOM' SaRonix-eCera

TYPE FN 7.0x5.0 SEAM SEALED CRYSTAL CLOCK OSCILLATOR

FNA000077

VER. A 20-Sep-11

ELECTRICAL SPECIFICATIONS

SRe Part Number : FNA000077

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fo	100.000000	MHz	
Frequency Stability	FT	± 20	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	55	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	3	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-σ)	1	ps	Max, 12KHz ~ 20MHz Frequency Band
Jitter, Accumulated	RMS(1-σ)	3	ps	Max, 20,000 Consecutive Periods
Jitter, Peak to Peak	Pk-Pk	30	ps	Max, 100,000 Random Periods
Start Up Time		10	ms	Мах
Storage Temperature Range		-55°C to +125°C	°C	

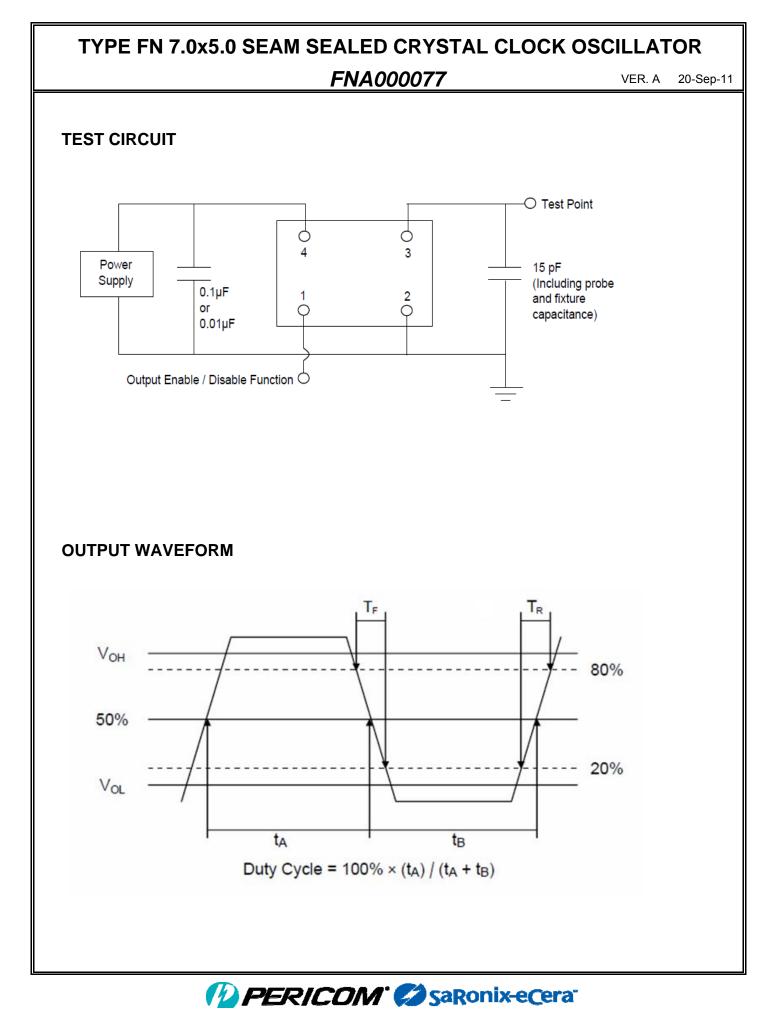
💥 This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb - Free).

**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			200	ns	
Output Enable Delay			2	ms	





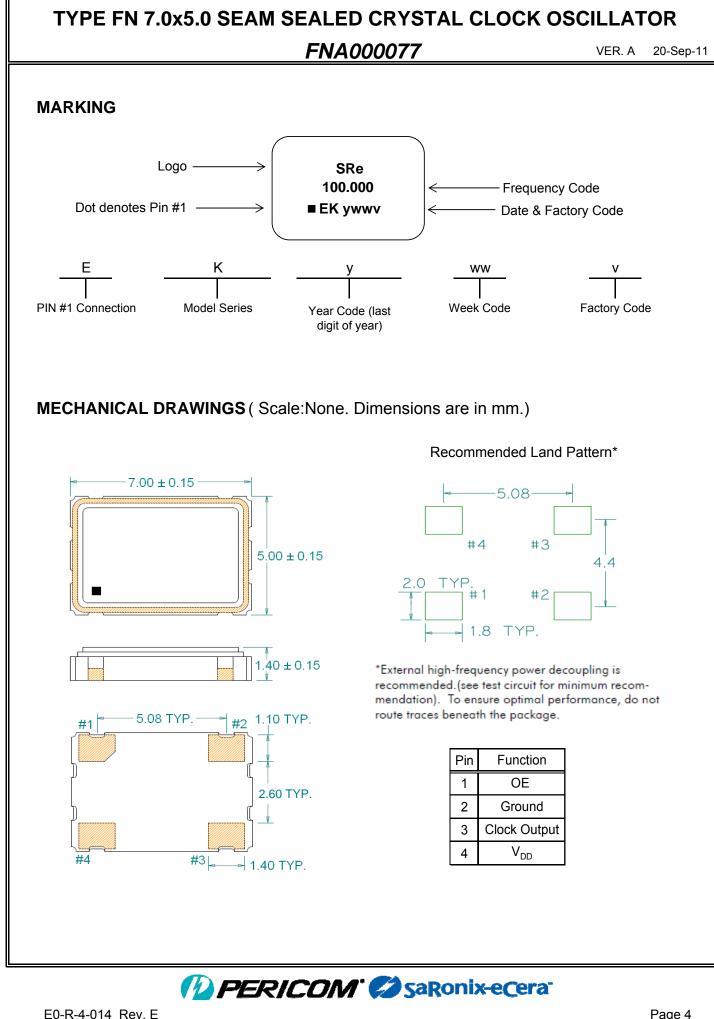
TYPE FN 7.0x5.0 SEAM SEALED CRYSTAL CLOCK OSCILLATOR

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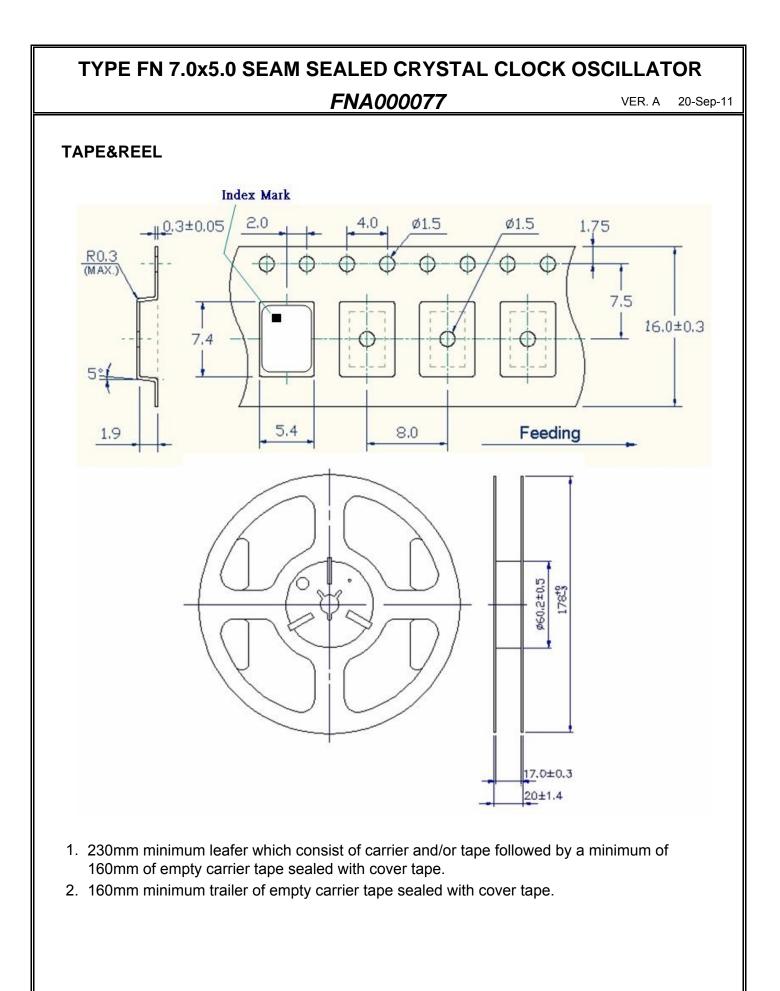
VER. A 20-Sep-11

ENVIRONMENTAL:				
a) THERMAL SHOCK: MIL-STD-883, Method 1011, Cond	lition A			
b) MOISTURE RESISTANCE: MIL-STD-883, Method 100	4			
c) VIBRATION: MIL-STD-883, Method 2007, Condition A				
 d) RESISTANCE TO SOLDERING HEAT: J-STD-020D Ta (except 2 cycles max) 	able 5-2 P	b-free devices	i	
e) HAZARDOUS SUBSTANCE: Pb - free and RoHS Com	pliant.			
MECHANICAL:				
a) SHOCK: MIL-STD-883, Method 2002, Condition B				
b) SOLDERABILITY: JESD22-B102-D Method 2 (Precond	litioning E)		
c) TERMINAL STRENGTH: MIL-STD-883, Method 2004,	Test Cond	lition D		
d) GROSS LEAK: MIL-STD-883, Method 1014, Condition	С			
e) FINE LEAK: MIL-STD-883, Method 1014, Condition A2	, R1=2x10	⁻⁸ atm cc/s		
f) SOLVENT RESISTANCE: MIL-STD-202, Method 215				
JGGESTED IR REFLOW PROFILE				
s per IPC-JEDEC J-STD-020D				
▲ 200				
Tem	Note	Stage	Temperature	Time
	A	Preheat	150~200°C	60~120 Sec
	в	Primary Heat	217°C	60~150 Sec
	С	Peak	260°C	10 Sec
Time				





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