PERICOM [®] SaRonix-ecera [®] PSE Technology Corporation						
FOR A	PPROVAL					
96.00	00000 MHz					
FK 3.2x2.5 SEAM SEA	LED CRYSTAL CLOCK OSCILLATOR					
FK	9600001					
March 22, 2012						
VERSION A						
PARED	QA					
bi Lu	Bedayiri					
APPROVED BY CUSTOMER :						
to PSE-TW						
PSE Technology Corporation *Pb-free No.2, Tzu-Chiang 5th Rd, Chung Li Industrial Park, Chung Li City, Taoyuan County, Taiwan (R.O.C.) *RoHS Compliant TEL: 886-3-451-8888 *HF-Halogen Free FAX: 886-3-461-3865 *REACH Compliant http://www.saronix-ecera.com.tw *REACH Compliant **** A company of PERICOM Semiconductor Compliant						
	gy Corp FOR A 96.00 FK 3.2x2.5 SEAM SEA FK Marc Marc Marc Ito PSE-TW k, *Pb-free *ROHS *HF-Ha *REAC					

E0-R-4-014 Rev. E

FK9600001

VER. A 22-Mar-12

VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes	
А	Mar.22,2012			Initial Release		

PER/COM SaRonix-ecera

FK9600001

VER. A 22-Mar-12

ELECTRICAL SPECIFICATIONS

SRe Part Number : FK9600001

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fo	96.000000	MHz	
Frequency Stability	FT	± 50	ppm	**See note
Operating Temperature Range	TR	-40 to +85	°C	
Supply Voltage	V _{DD}	+3.3 ± 5.0%	V	
Logic Type	LT	LVCMOS		
Supply Current, Output Enabled	I _{DD} /OE	25	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 10/90% 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	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	Max.
Storage Temperature Range		-55°C to +125°C	°C	

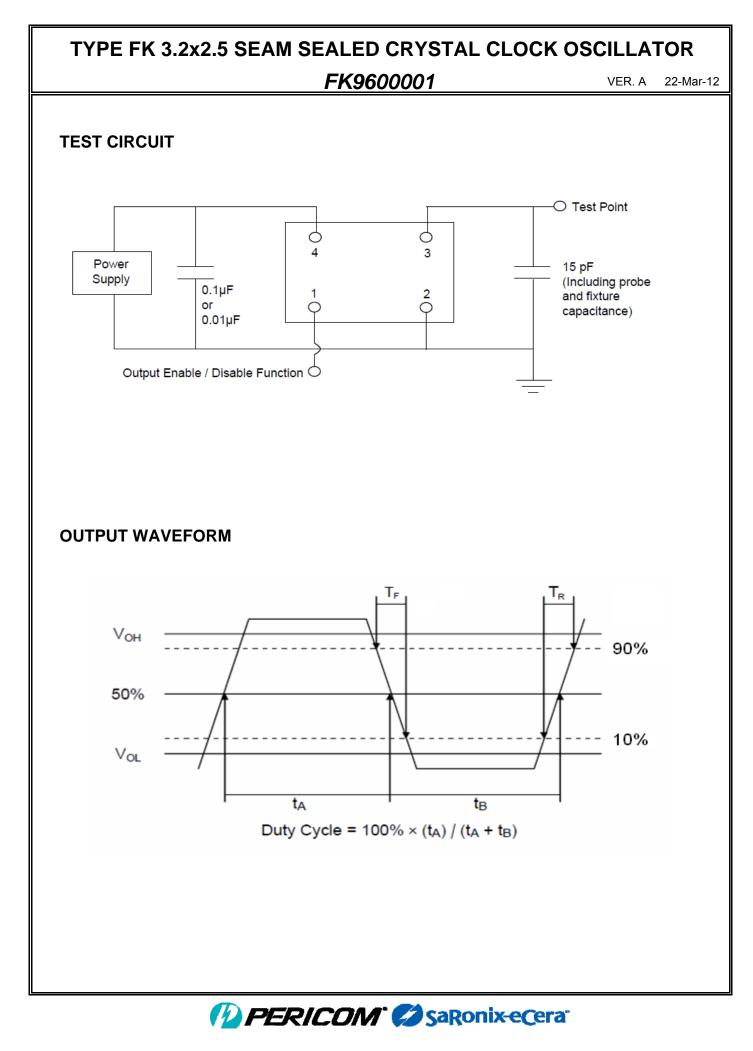
* This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb - Free).

**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	

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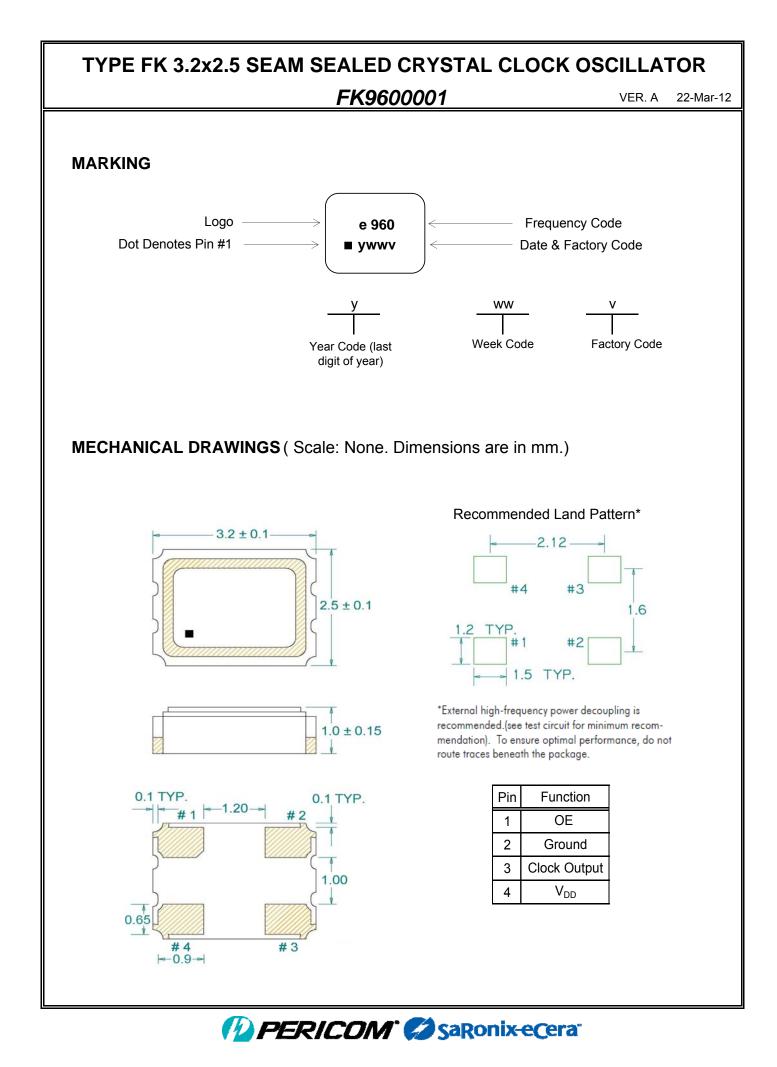
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VER. A 22-Mar-12

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. **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 260 Note: emperature Stage Temperature Time A Preheat 150~200°C 60~120 Sec B В 217°C 60~150 Sec Primary Heat C Peak 260°C 10 Sec Time

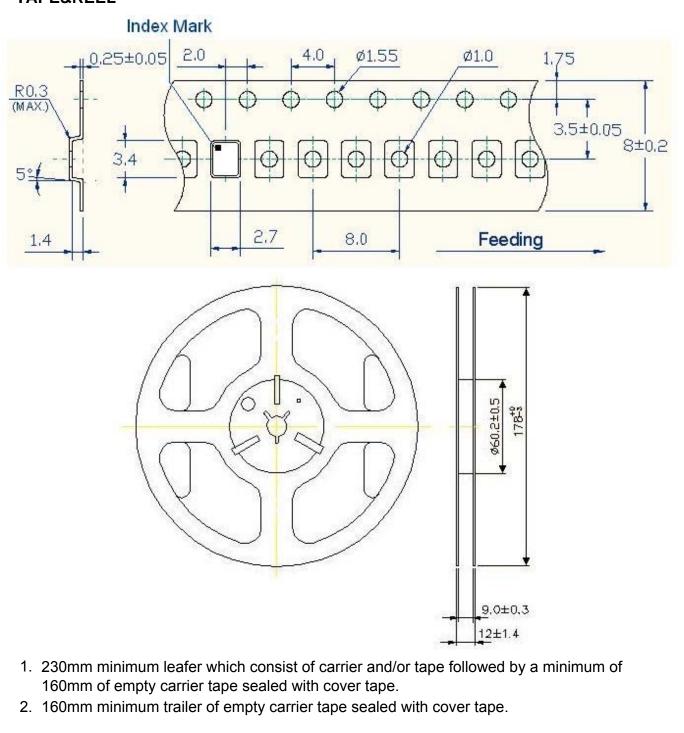
For soldering reflow profile and reliability test ratings go to: <u>http://www.pericom.com/pdf/sre/reflow.pdf</u>

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TYPE FK 3.2x2.5 SEAM SEALED CRYSTAL CLOCK OSCILLATORFK9600001VER. A 22-Mar-12

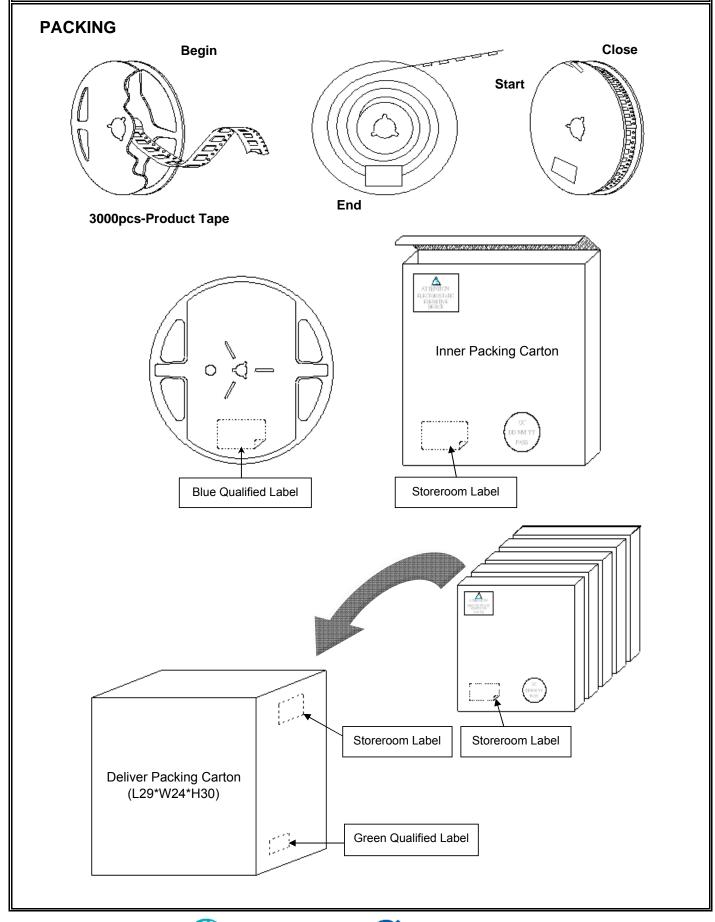
TAPE&REEL





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VER. A 22-Mar-12



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