PERICOM [®] SaRonix-ecera [®] PSE Technology Corporation						
SPECIFICATION FOR APPROVAL						
CUSTOMER						
NOMINAL FREQUENCY 32.768 KHz						
PRODUCT TYPE	TYPE KK 3.2x2.5 SEAM S	TYPE KK 3.2x2.5 SEAM SEALED CRYSTAL CLOCK OSCILLATOR				
SPEC. NO. (P/N)	ł	KK3270051				
CUSTOMER P/N						
ISSUE DATE	M	ay 26, 2011				
VERSION		Α				
APPROVED	PREPARED	QA				
Brenda	Claire	Canthen				
APPROVED BY CUSTOMER :		AVL Status				
Please return one copy with	n 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

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

KK3270051

VER. A 2-Jun-11

VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
A	May.26,2011			Initial Release	



KK3270051

VER. A 2-Jun-11

ELECTRICAL SPECIFICATIONS

SRe Part Number : KK3270051

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fo	32.768	KHz	
Frequency Stability	FT	± 25	ppm	**See note
Operating Temperature Range	TR	-40 to +85	°C	
Supply Voltage	V _{DD}	+1.8V ± 5%	V	
Logic Type	LT	LVCMOS		
Supply Current, Output Enabled	I _{DD} /OE	0.3	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	15	ns	Measured at 10 / 90% 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	Max.
Start Up Time		10	ms	Max.
Storage Temperature Range		-55°C to +125°C	°C	

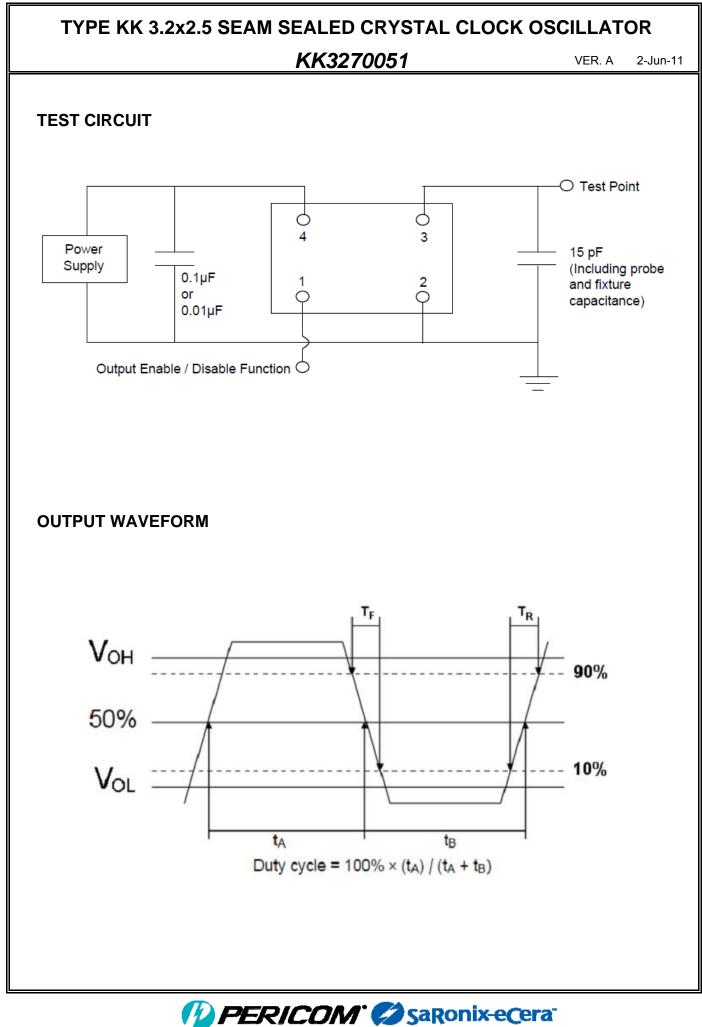
% This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb - Free).

**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)			$0.3V_{DD}$	V	Output is Hi-Z
Internal Pullup Resistance		470		KΩ	
Output Disable Delay			100	ns	
Output Enable Delay			10	ms	



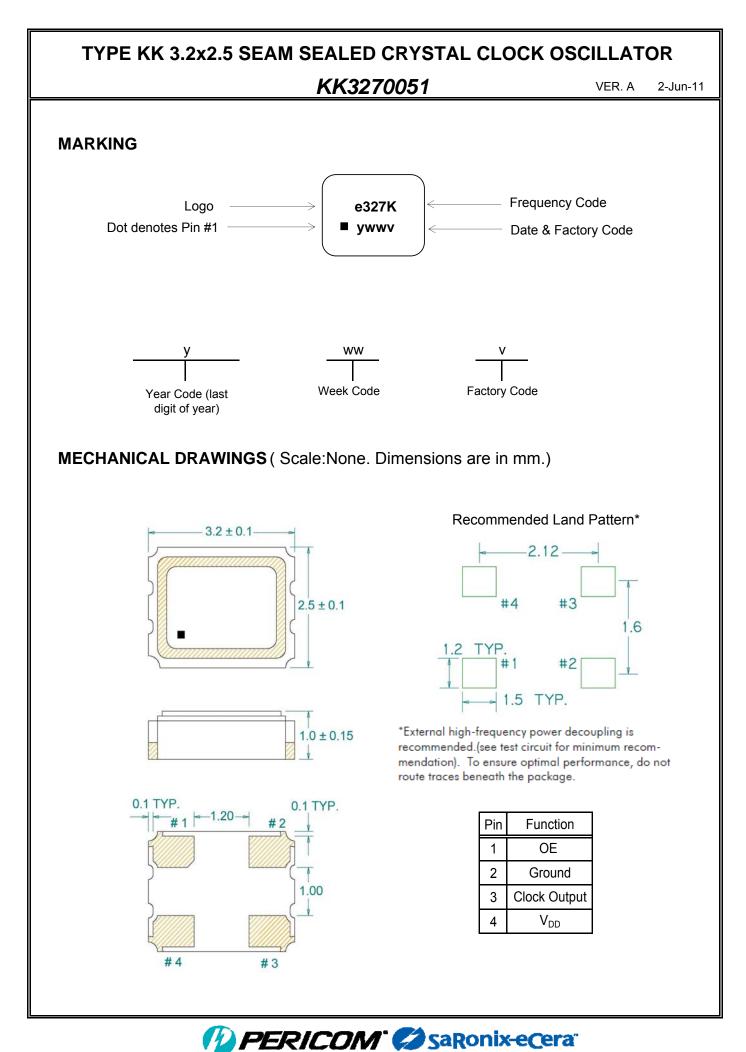


KK3270051

VER. A 2-Jun-11

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: Temperature Temperature Stage Time С A Preheat 150~200°C 60~120 Sec в B 217°C 60~150 Sec Primary Heat C Peak 260°C 10 Sec Time For soldering reflow profile and reliability test ratings go to: http://www.pericom.com/pdf/sre/reflow.pdf





KK3270051

VER. A 2-Jun-11

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