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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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PERICOM®	SaRonix-eCera [™]
PSE Technology	
SPECIFICATION FO	OR APPROVAL

CUSTOMER

NOMINAL FREQUENCY

32.768000 KHz

KD3270046Z

TYPE KD 5.0x3.2 SEAM SEALED CRYSTAL CLOCK OSCILLATOR

SPEC. NO. (P/N)

PRODUCT TYPE

CUSTOMER P/N

ISSUE DATE

VERSION

А

November 19, 2014

APPROVED	PREPARED	QA
Brenda	Nifbi Lu	Bedayiri
APPROVED BY	CUSTOMER :	AVL Status
Please return one copy wi	th 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 *AEC-Q200 Compliant

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

TYPE KD 5.0x3.2 SEAM SEALED CRYSTAL CLOCK OSCILLATOR

KD3270046Z

VER. A 19-Nov-14

VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
А	Nov.19,2014			Initial Release	



TYPE KD 5.0x3.2 SEAM SEALED CRYSTAL CLOCK OSCILLATOR

KD3270046Z

VER. A 19-Nov-14

ELECTRICAL SPECIFICATIONS

SRe Part Number : KD3270046Z

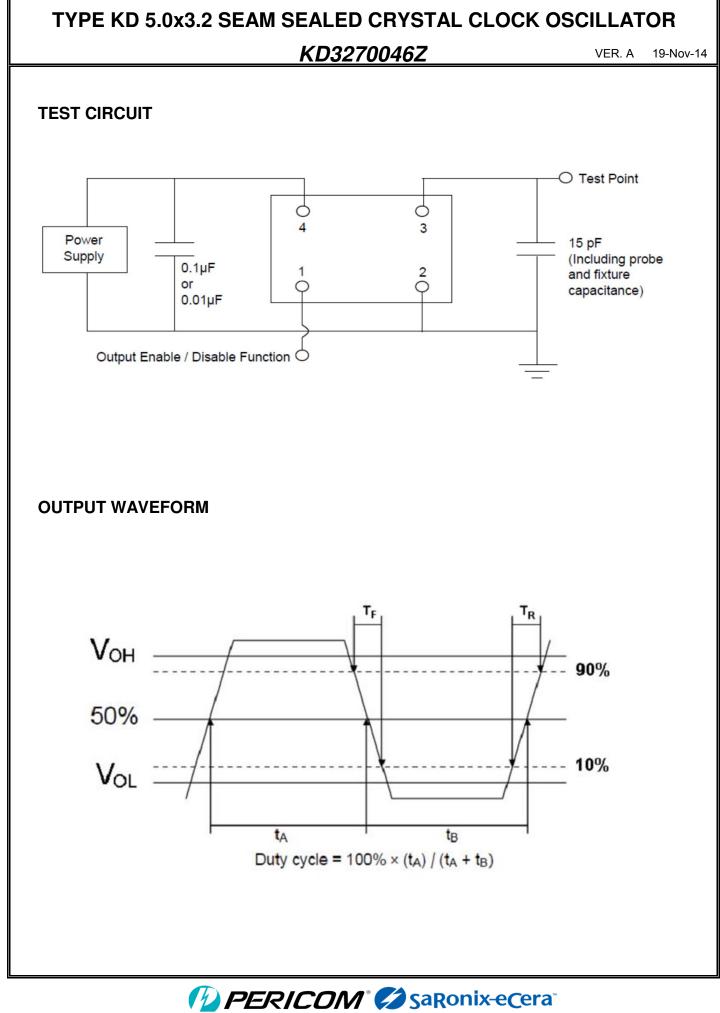
Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fo	32.768000	KHz	
Frequency Stability	FT	± 50	ppm	**See note
Operating Temperature Range	TR	-40 to +85	°C	
Supply Voltage	V _{DD}	+3.3V ± 10%	V	
Logic Type	LT	LVCMOS		
Supply Current, Output Enabled	I _{DD} /OE	0.5	mA	Max.
Supply Current, Output 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	Max. 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 to +125	°C	

**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		470		KΩ	
Output Disable Delay			100	ns	
Output Enable Delay			10	ms	





TYPE KD 5.0x3.2 SEAM SEALED CRYSTAL CLOCK OSCILLATOR

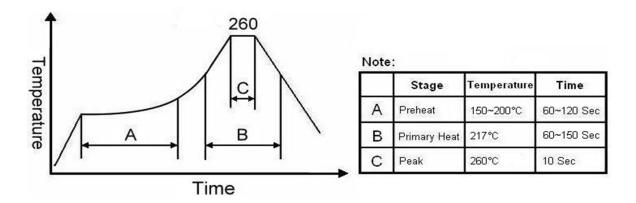
KD3270046Z

VER. A 19-Nov-14

1. Ir	nitial
1.1	Physical Dimensions: JESD22, Method JB1-100
1.2	External Visual: MIL-STD-883, Method 2009
1.3	Freq. Vs. Temperature: Per Specification/Datasheet
2. N	<i>A</i> echanical
2.1	Mechanical Shock: MIL-STD-202 Method 213
2.2	Vibration: MIL-STD-202 Method 204
2.3	Solderability: J-STD-020
2.4	Board Flex: AEC Q200-005
2.5	Terminal Strength (SMD): AEC Q200-006
3.E	nvironmental
3.1	Temp Cycle: JESD22, Method JA-104
3.2	Resistance to Solder Heat: MIL-STD-202 Method 210
3.3	High Temperature Operating Life: MIL-STD-202, Method 108
3.4	High Temp: MIL-STD-202, Method 108
3.5	High Temp & High humidity: MIL-STD-202, Method 103

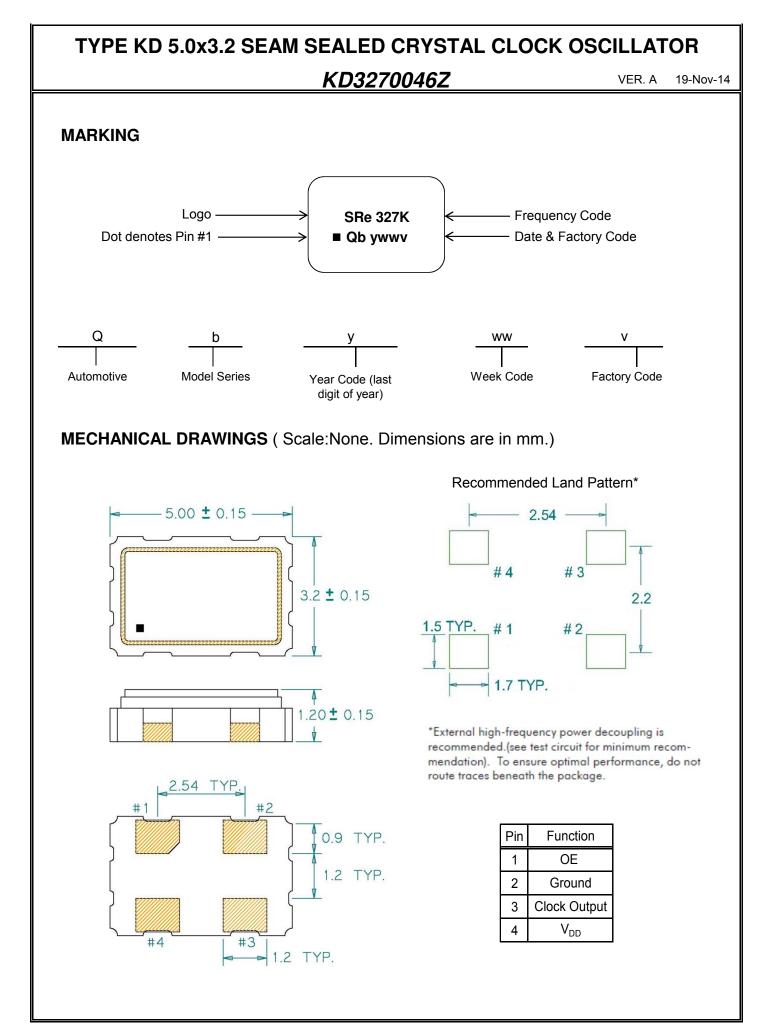
SUGGESTED IR REFLOW PROFILE

*As per IPC-JEDEC J-STD-020D



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

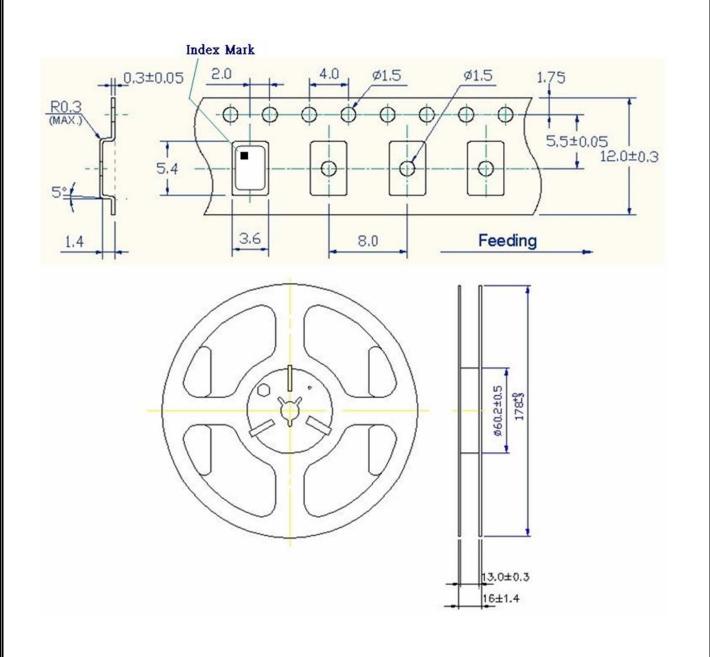
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TYPE KD 5.0x3.2 SEAM SEALED CRYSTAL CLOCK OSCILLATORKD3270046ZVER.A19-Nov-14

TAPE&REEL



- 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.



TYPE KD 5.0x3.2 SEAM SEALED CRYSTAL CLOCK OSCILLATOR KD3270046Z VER.A 19-Nov-14 PACKING Egin Close Start Start Start

