	Diodes		PERICOM		
SPECIFICAT					
CUSTOMER					
NOMINAL FREQUENCY		25.0	5.000625 MHz		
HOLDER TYPE	ТҮРЕ І	FK 3.2x2.5 SEAM SE	SEALED CRYSTAL CLOCK OSCILLATOR		
SPEC. NO. (P/N)		Fł	FK2500041		
CUSTOMER P/N					
ISSUE DATE	January 16, 2018				
VERSION			В		
APPROVED	PRE	PARED	QA		
Brenda	Ni	eh	Dong Yang		
Diodes Incorporated No.2, Ziqiang 5th Rd., Zhongli Indu Zhongli Dist., Taoyuan City 32063, TEL: 886-3-451-8888 FAX: 886-3-461-3865 https://www.diodes.com		*HF-H	ee 6 Compliant alogen Free CH Compliant		

FK2500041

VER. B 16-Jan-18

VERSION HISTORY

Version No.	Version Date	Description	Notes
А	May.21,2012	Initial Release	
В	Jan.16,2018	Updated logo.	



FK2500041

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ELECTRICAL SPECIFICATIONS

SRe Part Number : FK2500041

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	C	
Supply Voltage	V _{DD}	+3.3 ± 5.0%	V	
Logic Type	LT	LVCMOS		
Supply Current, Output Enabled	I _{DD} /OE	10	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	Max.
Jitter, Phase	RMS	1	ps	Max. 12kHz ~ 5MHz 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 to +125	C	

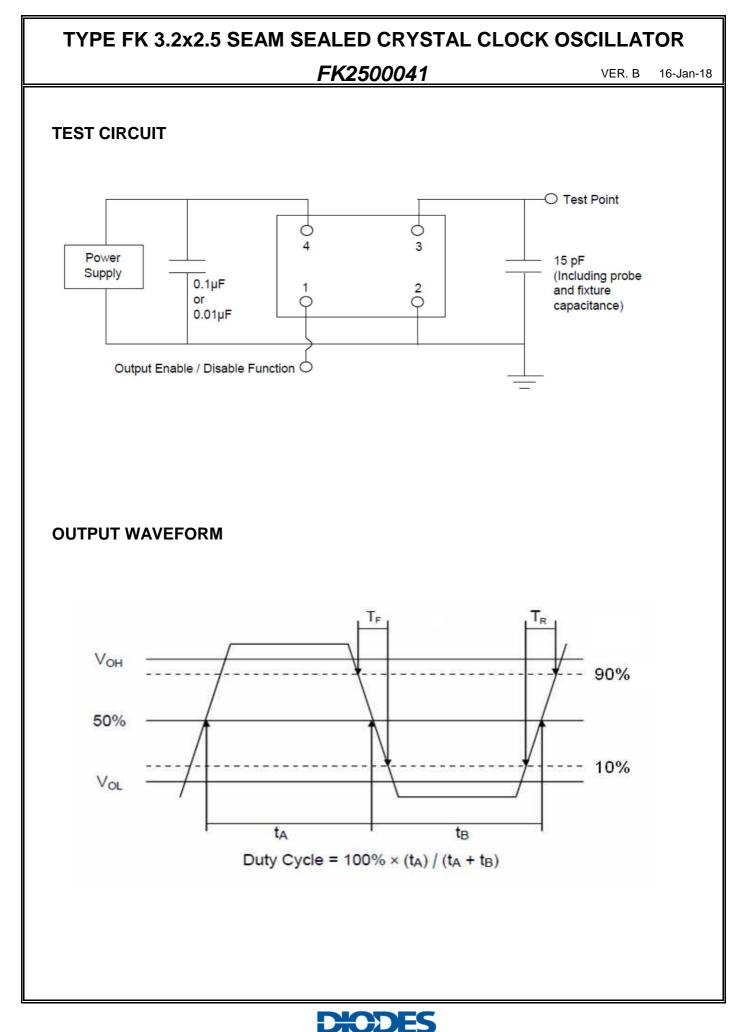
* This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb - Free).

**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	30			KΩ	
Output Disable Delay			50	ns	





FK2<u>500041</u>

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RELIABILITY SPECIFICATIONS

ENVIRONMENTAL:

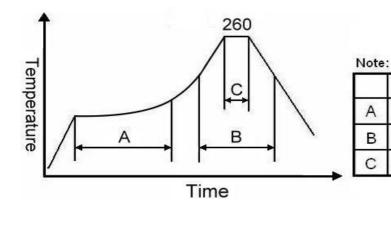
- a) THERMAL SHOCK: MIL-STD-883, Method 1011, Condition A
- b) MOISTURE RESISTANCE: MIL-STD-883, Method 1004
- c) VIBRATION: MIL-STD-883, Method 2007, Condition A
- d) RESISTANCE TO SOLDERING HEAT: J-STD-020D Table 5-2 Pb-free devices (except 2 cycles max)
- e) HAZARDOUS SUBSTANCE: Pb free and RoHS Compliant.

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

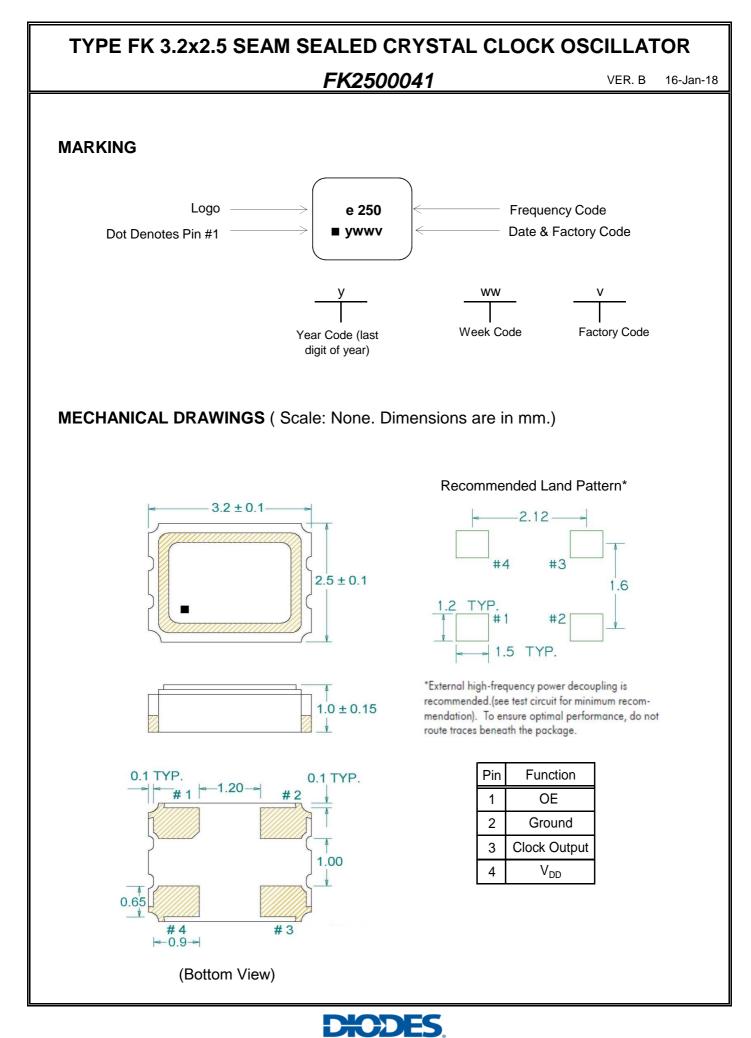
SUGGESTED IR REFLOW PROFILE

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



	Stage	Temperature	Time		
А	Preheat	150~200°C	60~120 Sec		
в	Primary Heat	217°C	60~150 Sec		
С	Peak	260°C	10 Sec		



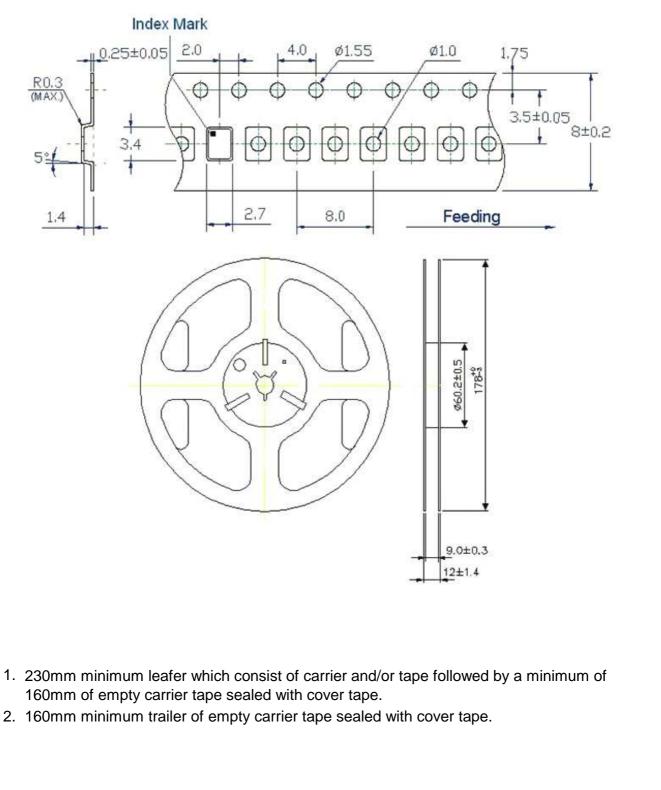


E0-R-4-014 Rev. F

FK2500041

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TAPE&REEL

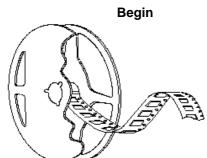




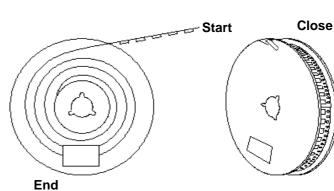
FK2500041

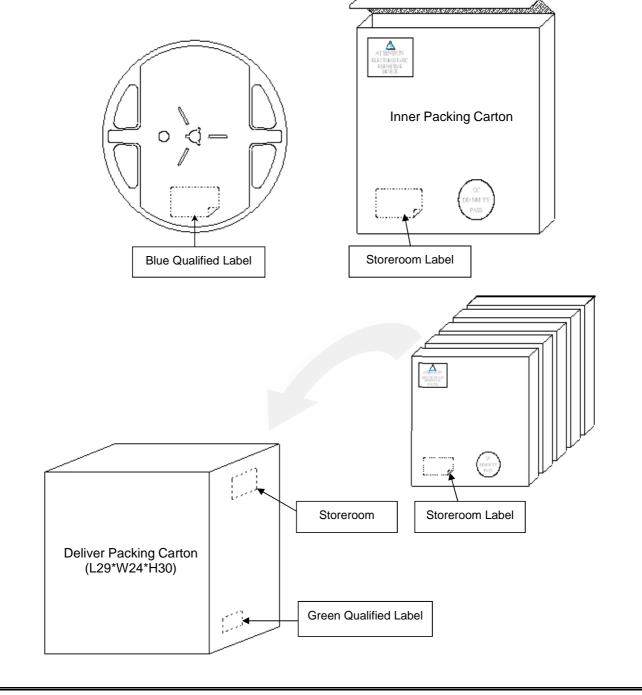
VER. B 16-Jan-18

PACKING



3000pcs-Product Tape







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