



SPECIFICATION FOR APPROVAL

CUSTOMER				
NOMINAL FREQUENCY	8.000000 MHz			
PRODUCT TYPE	TYPE FN 5.0x7.0 SEAM SEALED CRYSTAL CLOCK OSCILLATOR			
SPEC. NO. (P/N)	FN0800035			
CUSTOMER P/N				
ISSUE DATE	March 13, 2018			
VERSION	В			

APPROVED	PREPARED	QA
Brenda	Pens	Dong Jang

Diodes Incorporated

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- *Pb-free
- *RoHS Compliant
- *HF-Halogen Free
- *REACH Compliant

TYPE FN 5.0x7.0 SEAM SEALED CRYSTAL CLOCK OSCILLATOR VER. B 13-Mar-18

FN0800035

VERSION HISTORY

Version No.	Version Date	Description	Notes
Α	Feb.22,2011	Initial Release	
В	Mar.13,2018	Updated logo	



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ELECTRICAL SPECIFICATIONS

SRe Part Number: FN0800035

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fo	8.000000	MHz	
Frequency Stability	FT	± 50	ppm	**See note
Operating Temperature Range	TR	-40 to +85	°C	
Supply Voltage	V_{DD}	+2.5 ± 5.0%	V	
Logic Type	LT	LVCMOS		
Supply Current, Output Enabled	I _{DD} /OE	15	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	10	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	Max
Jitter, Peak to Peak	Pk-Pk	50	ps	Max, 100,000 Random Periods
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).

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			ΚΩ	
Output Disable Delay			50	ns	

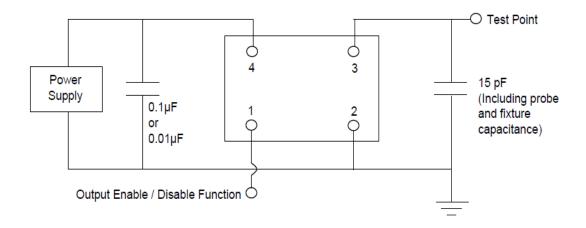


^{**}Stability includes all combinations of Operating Temperature, Load changes, rated Input (Supply) Voltage changes, Initial Calibration Tolerance (25°C), Aging (1 year at 25°C Average Effective Ambient Temperature), Shock and Vibration.

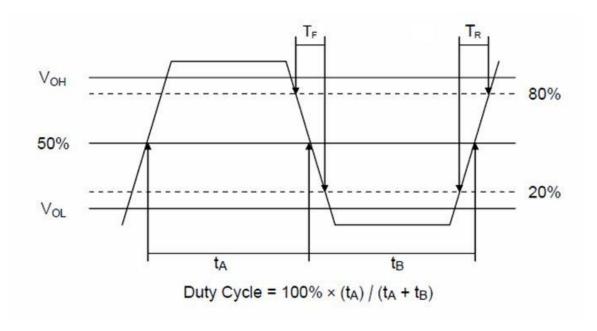
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TEST CIRCUIT



OUTPUT WAVEFORM





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RELIABILITY SPECIFICATIONS

ENVIRONMENTAL:

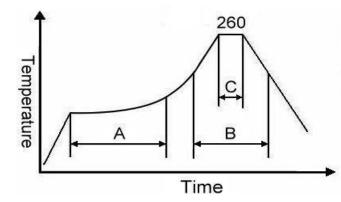
- a) THERMAL SHOCK: MIL-STD-883, Method 1011, Condition A
- b) MOISTURE RESISTANCE: MIL-STD-883, Method 1004
- c) VIBRATION: MIL-STD-883, Method 2007, Condition A
- d) RESISTANCE TO SOLDERING HEAT: J-STD-020D Table 5-2 Pb-free devices (except 2 cycles max)
- e) HAZARDOUS SUBSTANCE: Pb free and RoHS Compliant.

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



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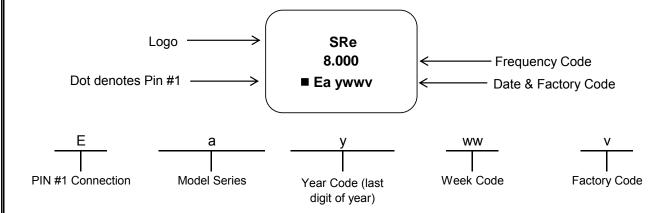
	Stage	Temperature	Time
Α	Preheat	150~200°C	60~120 Sec
В	Primary Heat	217°C	60~150 Sec
С	Peak	260°C	10 Sec

DES.

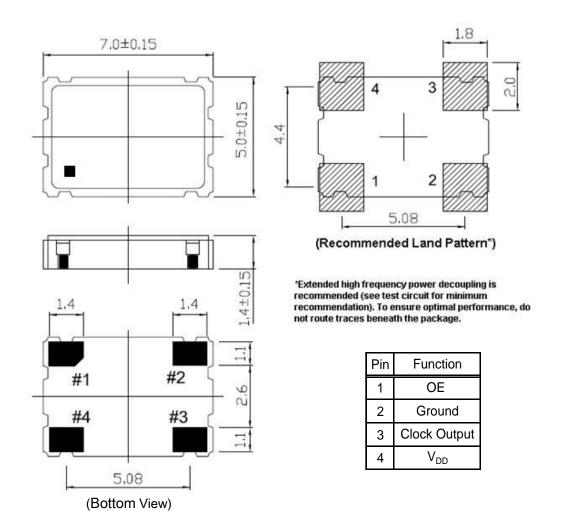
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MARKING



MECHANICAL DRAWINGS (Scale:None. Dimensions are in mm.)



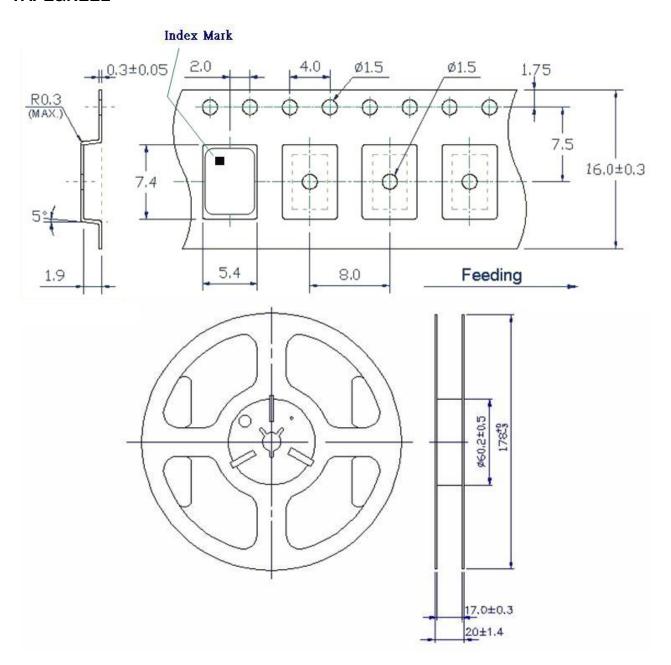


E0-R-4-014 Rev. F

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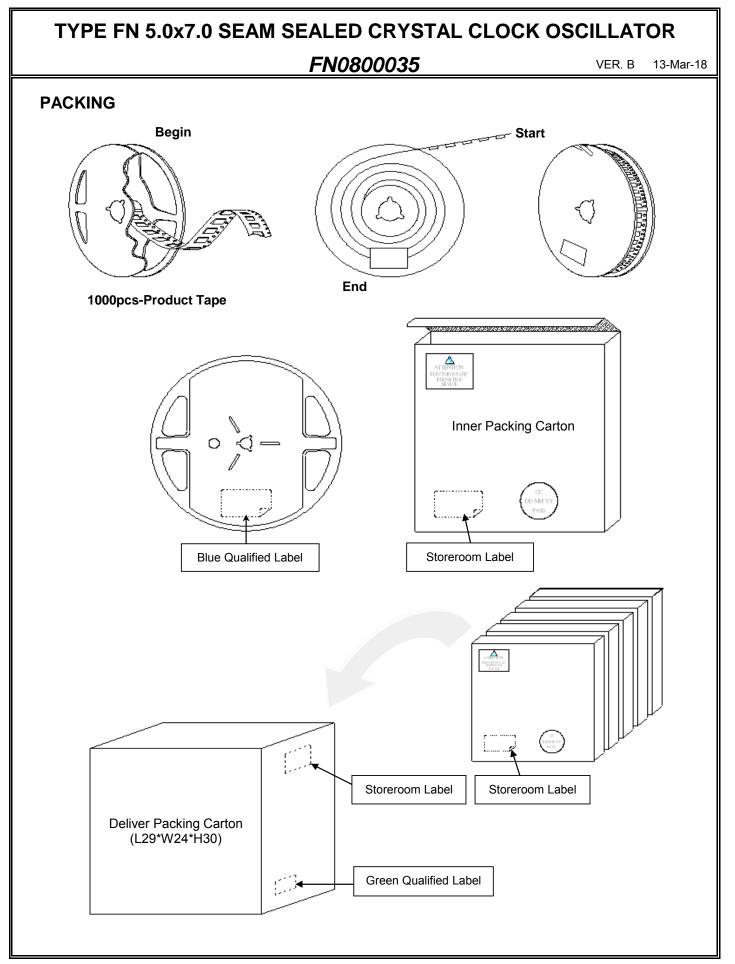
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TAPE&REEL



- 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.







单击下面可查看定价,库存,交付和生命周期等信息

>>Diodes Incorporated(达迩科技(美台))