	A Product Line of Diodes Incorporated
SPECIFICATIO	N FOR APPROVAL
CUSTOMER	
NOMINAL FREQUENCY	27.000000 MHz
PRODUCT TYPE	TYPE FN 7.0x5.0 SEAM SEALED CRYSTAL CLOCK OSCILLATOR
SPEC. NO. (P/N)	FN2700073
CUSTOMER P/N	
ISSUE DATE	May 22, 2018
VERSION	E

APPROVED	PREPARED	QA
Brenda	Nikbi Lu	Dong Yang

Diodes Incorporated

No.2, Ziqiang 5th Rd., Zhongli Industrial Park, Zhongli Dist., Taoyuan City 32063, Taiwan (R.O.C.) TEL: 886-3-451-8888 FAX: 886-3-461-3865 https://www.diodes.com *Pb-free *RoHS Compliant *HF-Halogen Free *REACH Compliant

FN2700073

VER. E 22-May-18

VERSION HISTORY

Version No.	Version Date	Description	Notes
А	Apr.23,2009	Initial Release	
В	Dec.18,2009	Revised OE/OD function 50ns	
С	Jul.7,2010	Changed Logo	
D	Jan.6,2011	Revised format	
Е	May.22,2018	Updated logo	



FN2700073

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ELECTRICAL SPECIFICATIONS

SRe Part Number : FN2700073

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fo	27.000000	MHz	
Frequency Stability	FT	± 50	ppm	**See note
Operating Temperature Range	TR	-20 to +70	°C	
Supply Voltage	V _{DD}	+3.3 ± 10.0%	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	7	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	Мах
Jitter, Phase	RMS	1.5	ps	Max, 12KHz ~ 5MHz Frequency Band
Jitter, Accumulated	RMS(1-σ)	5	ps	Max, 20,000 Consecutive Periods
Jitter, Peak to Peak	Pk-Pk	50	ps	Max, 100,000 Random Periods
Start Up Time		10	ms	Max.
Storage Temperature Range		-55 to +125	°C	

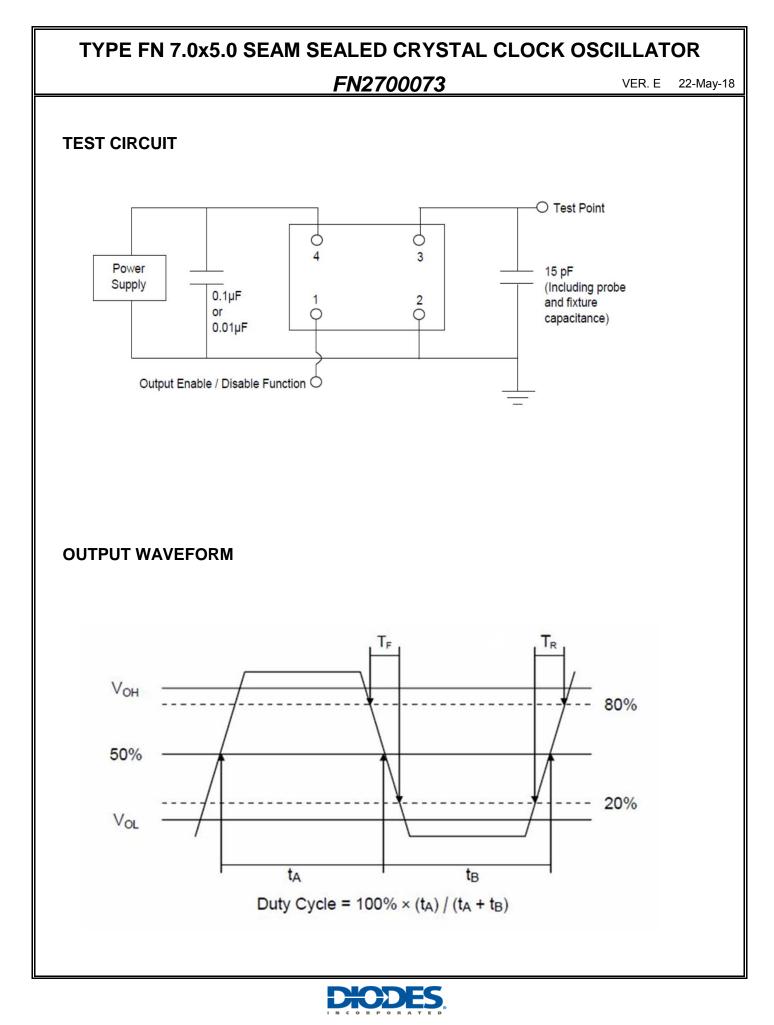
** This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb - Free).

**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)			$0.3V_{\text{DD}}$	V	Output is Hi-Z
Internal Pullup Resistance	30			KΩ	
Output Disable Delay			50	ns	





E0-R-4-014 Rev. F

FN2700073

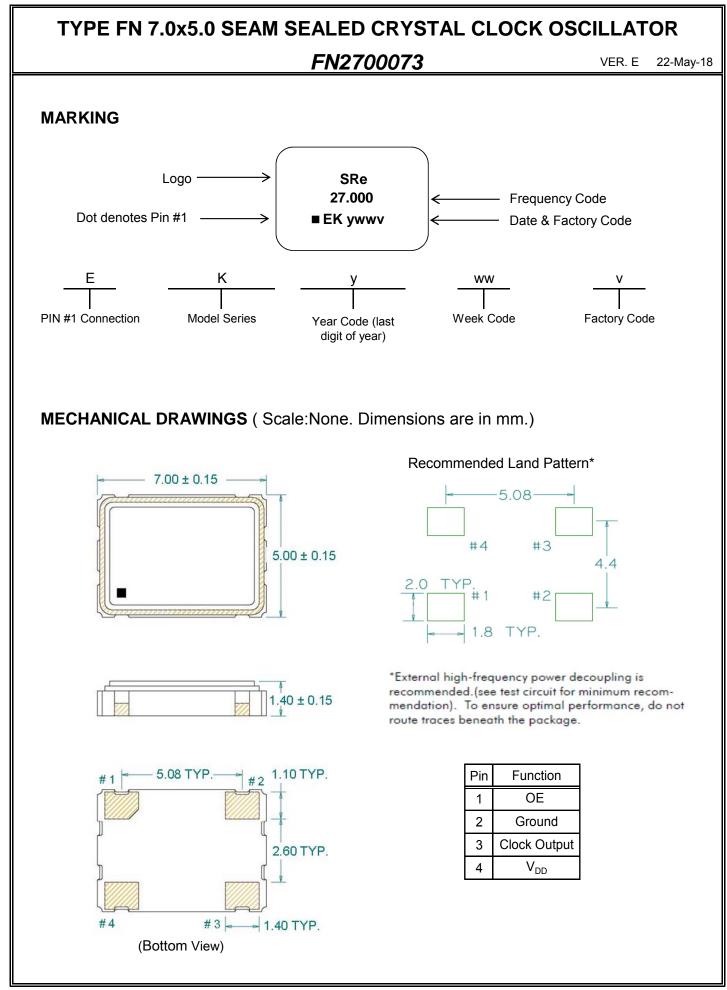
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RELIABILITY SPECIFICATIONS ENVIRONMENTAL: a) THERMAL SHOCK: MIL-STD-883, Method 1011, Condition A b) MOISTURE RESISTANCE: MIL-STD-883, Method 1004 c) VIBRATION: MIL-STD-883, Method 2007, Condition A d) RESISTANCE TO SOLDERING HEAT: J-STD-020D Table 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 260 Note: l emperature C B



	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



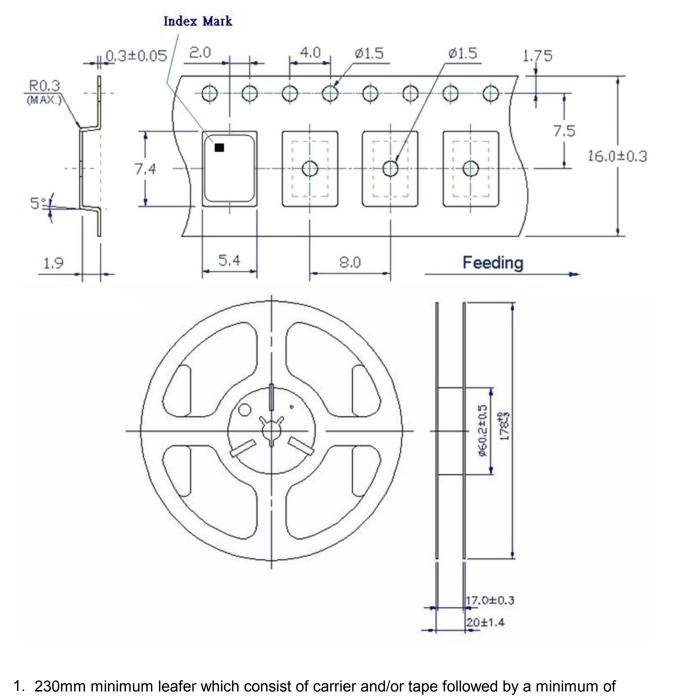




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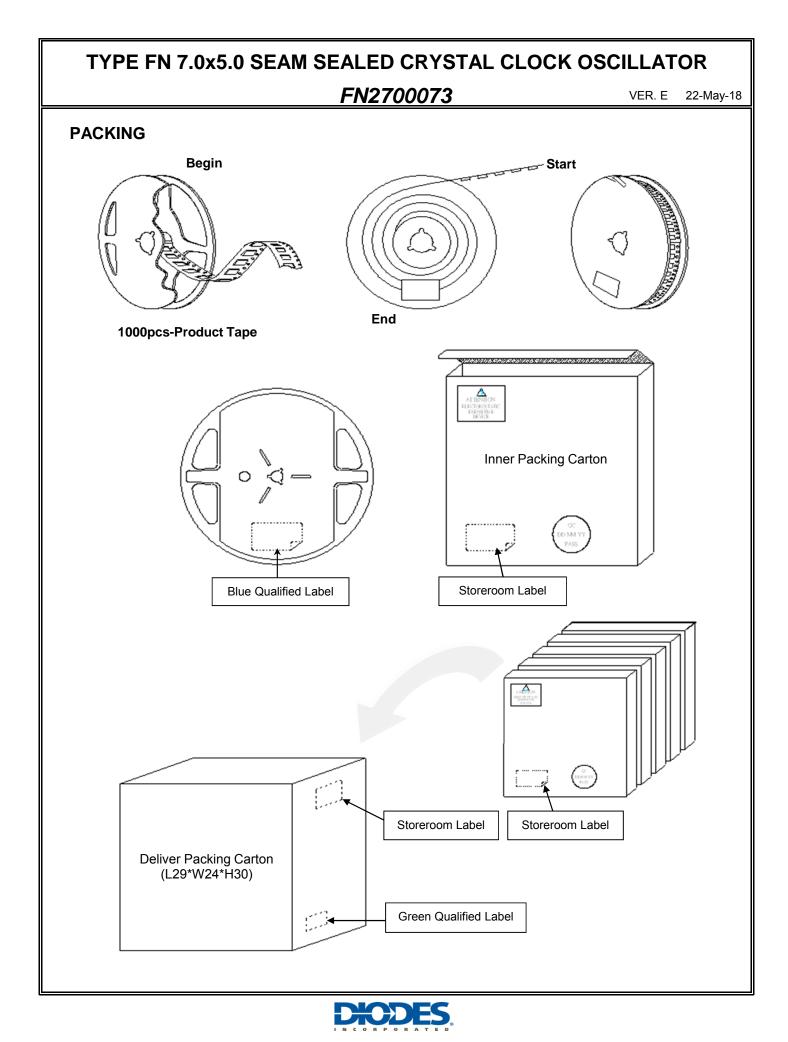
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TAPE&REEL



- 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))