	A Product Line of Diodes Incorporated	PERICOM [®]		
SPECIFICATIO	N FOR	APPROVAL		
CUSTOMER				
NOMINAL FREQUENCY	25.000000 MHz			
PRODUCT TYPE	TYPE FN 7.0x5.0 SEAM SEALED CRYSTAL CLOCK OSCILLATOR			
SPEC. NO. (P/N)	FN2500158			
CUSTOMER P/N				
ISSUE DATE	N	lay 11, 2018		
VERSION		E		

APPROVED	PREPARED	QA			
Brenda	Kelly	Dong Jang			

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

FN2500158

VER. E 11-May-18

VERSION HISTORY

Version No.	Version Date	Description	Notes
E	May.11,2018	Updated logo	
	<u> </u>		



FN2500158

VER. E 11-May-18

ELECTRICAL SPECIFICATIONS

SRe Part Number : FN2500158

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fo	25.000000	MHz	
Frequency Stability	FT	± 20	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	

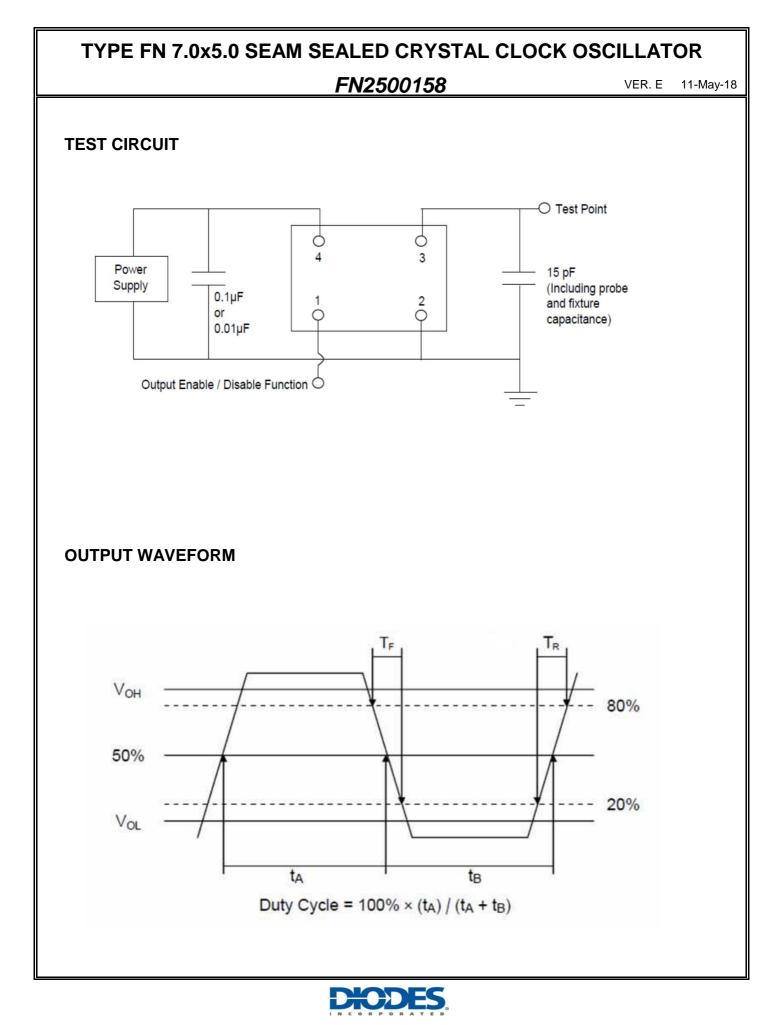
** This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb - Free).

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





E0-R-4-014 Rev. F

FN2500158

VER. E 11-May-18

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: emperature Stage Temperature Time С A Preheat 150~200°C 60~120 Sec

В

C

Primary Heat

Peak

R

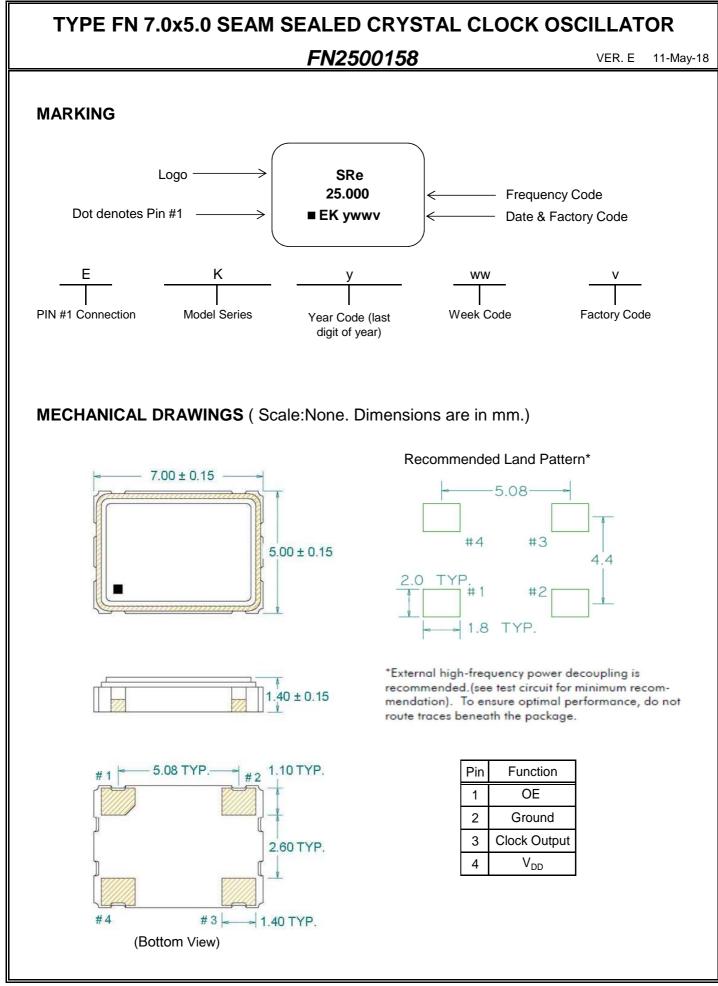
Time

60~150 Sec

10 Sec

217°C

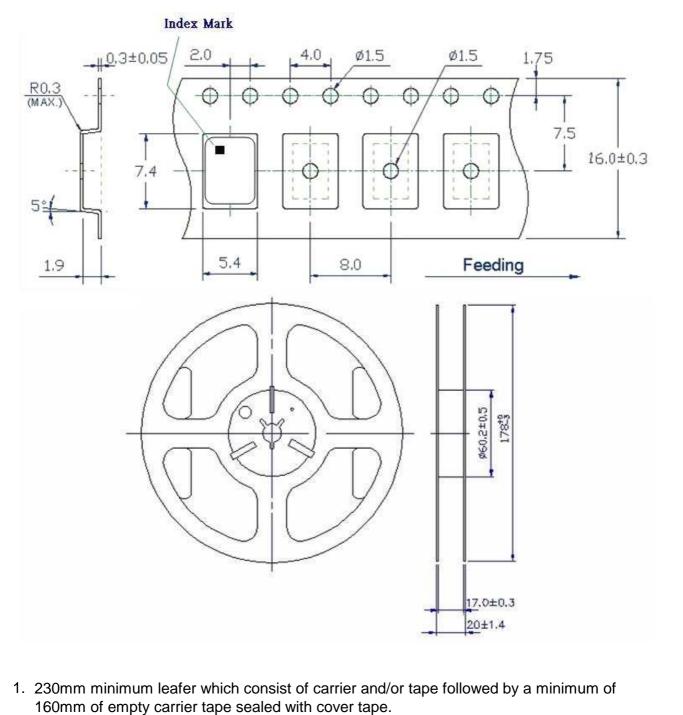
260°C



FN2500158

VER. E 11-May-18

TAPE&REEL



2. 160mm minimum trailer of empty carrier tape sealed with cover tape.



