

A Product Line of **Diodes Incorporated**



SPECIFICATION FOR APPROVAL

CUSTOMER	
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NOMINAL FREQUENCY

PRODUCT TYPE

24.576000 MHz

TYPE FJ 2.5x2.0 SEAM SEALED CRYSTAL CLOCK OSCILLATOR

SPEC. NO. (P/N)

CUSTOMER P/N

ISSUE DATE

VERSION

FJ2450008Z

March 8, 2018

В

APPROVED	PREPARED	QA
Brenda	Ress	Dong Jang

Diodes Incorporated

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

FJ2450008Z

VER. B 8-Mar-18

VERSION HISTORY

Version No.	Version Date	Description	Notes
А	Jul.1,2015	Initial Release	
В	Mar.8,2018	Updated logo	



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VER. B 8-Mar-18

ELECTRICAL SPECIFICATIONS

SRe Part Number : FJ2450008Z

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fo	24.576000	MHz	
Frequency Stability	FT	± 50	ppm	**See note
Operating Temperature Range	TR	-40 to +85	°C	
Supply Voltage	V _{DD}	+3.3 ± 10%	V	
Logic Type	LT	LVCMOS		
Supply Current, Output Enabled	I _{DD} /OE	10	mA	Мах
Supply Current, Output Disabled	I _{DD} /OD	10	μA	Мах
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	Мах
Output Voltage "1" Level	V _{OH}	90% V _{DD}	V	Min
Output Load	CL	15	pF	Мах
Jitter, Phase	RMS	1	ps	Max. 12KHz ~ 5MHz Frequency Band
Jitter, Accumulated	RMS(1-σ)	5	ps	Typ. 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	

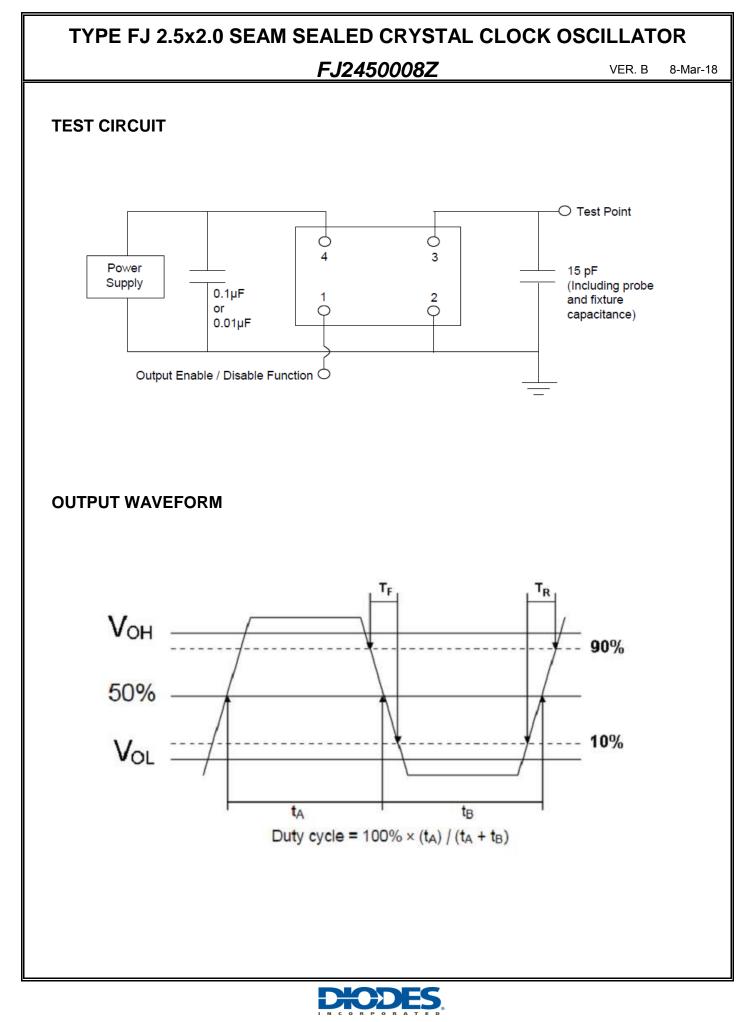
* This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb - Free).

**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	



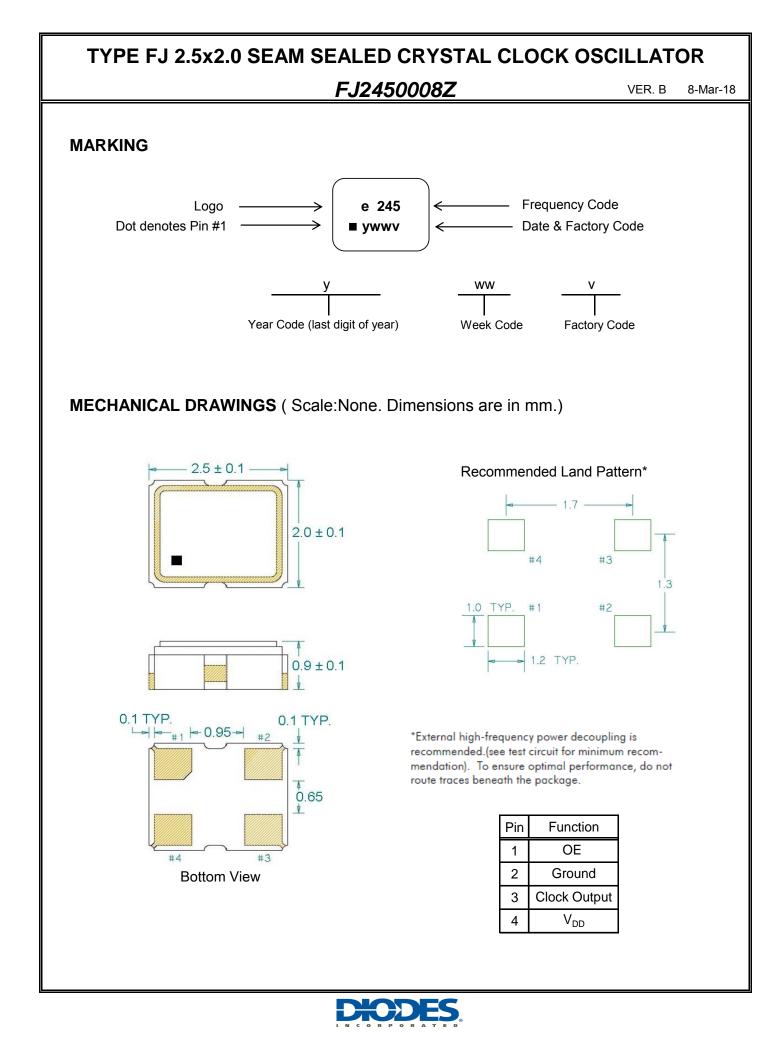


FJ2450008Z

VER. B 8-Mar-18

ENVIRONMENTAL:				
a) THERMAL SHOCK: MIL-STD-883, Method 1011, Conc	dition A			
b) MOISTURE RESISTANCE: MIL-STD-883, Method 100)4			
c) VIBRATION: MIL-STD-883, Method 2007, Condition A				
 d) RESISTANCE TO SOLDERING HEAT: J-STD-020D Ta (except 2 cycles max) 	able 5-2	2 Pb-free devi	ces	
e) HAZARDOUS SUBSTANCE: Pb - free and RoHS/Gree	en Com	pliant.		
MECHANICAL:				
a) SHOCK: MIL-STD-883, Method 2002, Condition B				
b) SOLDERABILITY: JESD22-B102-D Method 2 (Precond	ditioning	јЕ)		
c) TERMINAL STRENGTH: MIL-STD-883, Method 2004,	Test C	ondition D		
d) GROSS LEAK: MIL-STD-883, Method 1014, Condition	С			
e) FINE LEAK: MIL-STD-883, Method 1014, Condition A2	2, R1=2	<10 ⁻⁸ atm cc/s	i	
f) SOLVENT RESISTANCE: MIL-STD-202, Method 215				
JGGESTED IR REFLOW PROFILE s per IPC-JEDEC J-STD-020D				
	Note	Stage	Temperature	Time
	A	Preheat	150~200°C	60~120 Sec
Temperature	В	Primary Heat	217°C	60~150 Sec
	С	Peak	260°C	10 Sec

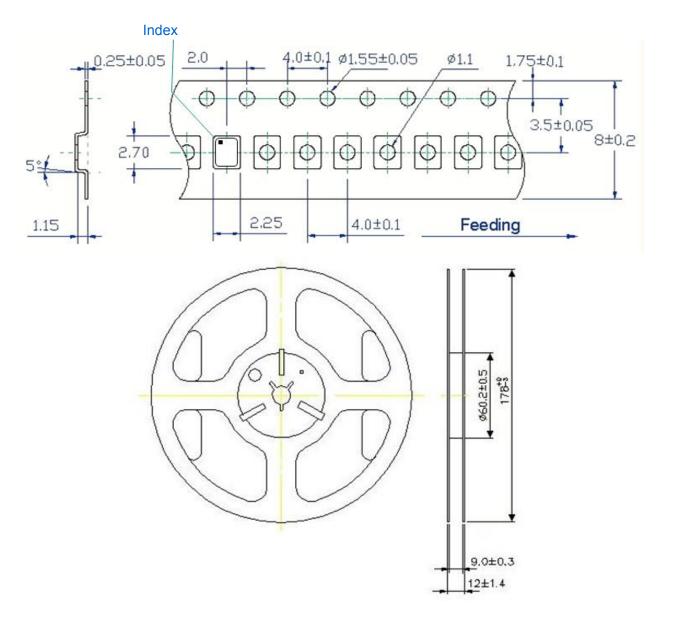




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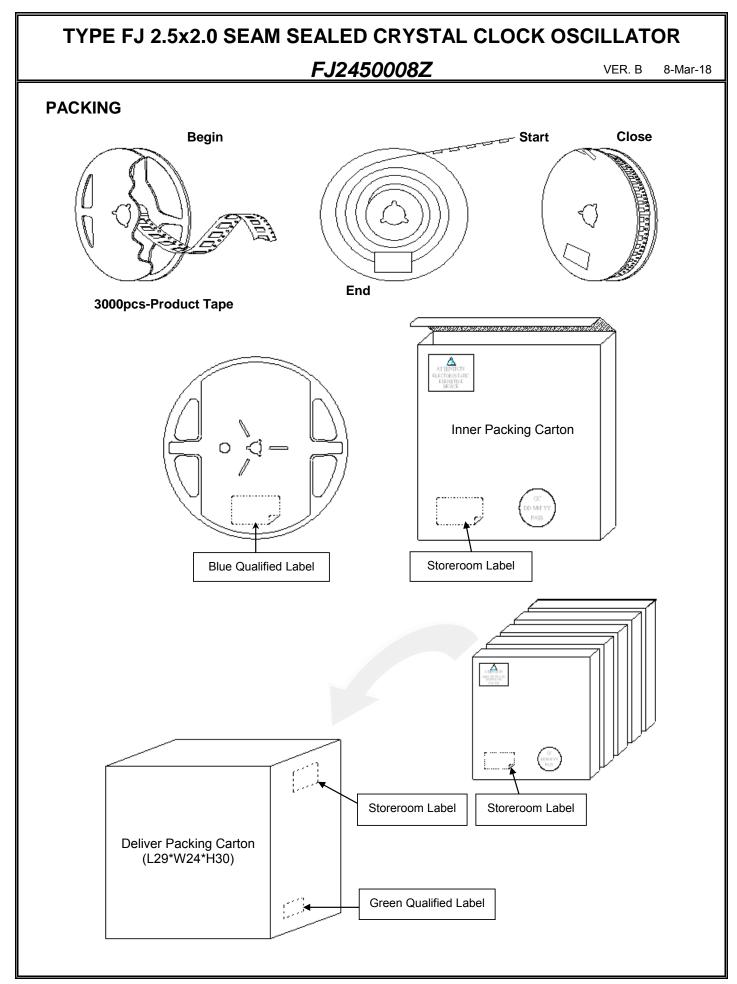
VER. B 8-Mar-18

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))