

SPECIFICATION FOR APPROVAL

CUSTOMER

NOMINAL FREQUENCY

25.000000 MHz

TYPE FN 7.0x5.0 SEAM SEALED CRYSTAL CLOCK OSCILLATOR

FN2500258Z

PRODUCT TYPE

SPEC. NO. (P/N)

CUSTOMER P/N

ISSUE DATE

January 7, 2015

VERSION

Α

APPROVED	PREPARED	QA
Brenda	Nifbi Lu	Dong Jang
APPROVED BY	CUSTOMER :	AVL Status
Please return one copy v		
PSE Technology Corpor	*Dh faa	0
No.2, Tzu-Chiang 5th Rd, Chung Li Chung Li City, Taoyuan County, Ta TEL: 886-3-451-8888		e Compliant
FAX: 886-3-461-3865	*HF-Ha	llogen Free
http://www.saronix-ecera.com.tw	*REAC	H Compliant
*** A company of 🜈	PERICOM Semicona	luctor Corporation ***

FN2500258Z

VER. A 7-Jan-15

VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
А	Jan.7,2015			Initial Release	

PERICOM SaRonix-eCera

FN2500258Z

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ELECTRICAL SPECIFICATIONS

SRe Part Number : FN2500258Z

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fo	25.000000	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	10	mA	Max.
Supply Current, Output Disabled	I _{DD} /OD	3 / 5	μA	Тур. / Мах.
Duty Cycle (Symmetry)	DC/SY	45 / 55	%	Measured 50% of Waveform
Rise / Fall Time	T _R /T _F	1.5 / 2.5	ns	Typ / Max. measured 10/90% 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	0.4	ps	Max, 12KHz ~ 20MHz Frequency Band
Jitter, Accumulated	RMS(1-σ)	5	ps	Max, 20,000 Consecutive Periods
Jitter, Peak to Peak	Pk-Pk	25	ps	Max, 100,000 Random Periods
Start Up Time		3	ms	Мах
Storage Temperature Range		-55 to +125	°C	

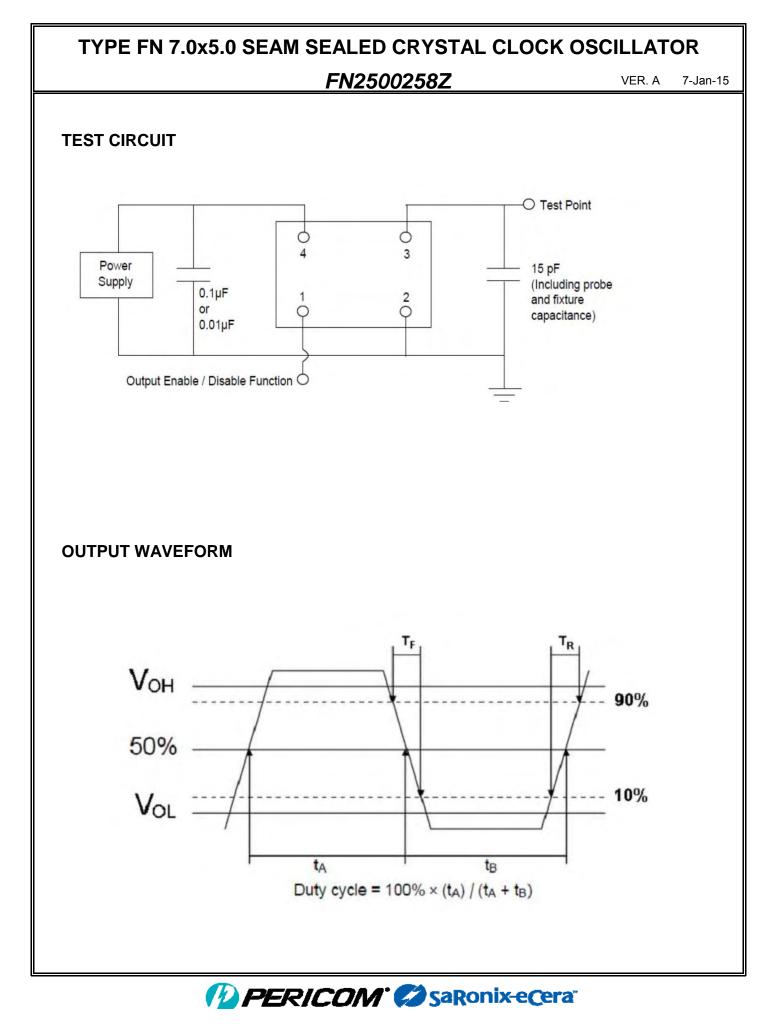
🗱 This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb - Free).

**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	
Output Enable Delay			50	us	



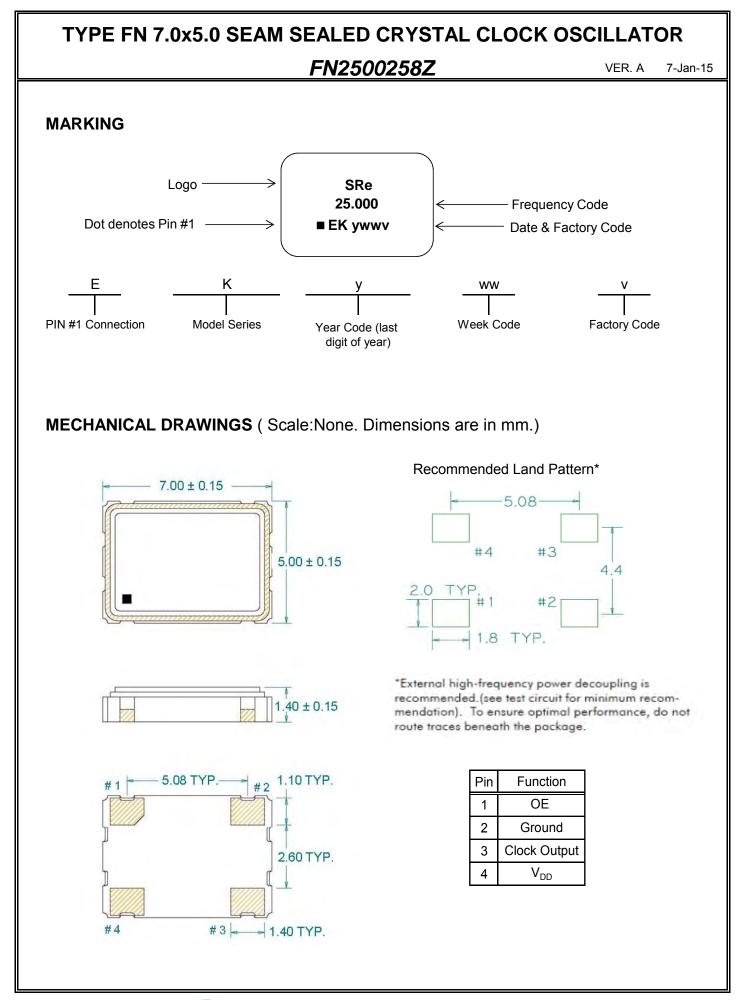


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THERMAL SHOCK: MIL-STD-883, Method 1011, Condition A MOISTURE RESISTANCE: MIL-STD-883, Method 1004 VIBRATION: MIL-STD-883, Method 2007, Condition A RESISTANCE TO SOLDERING HEAT: J-STD-020D Table 5-2 (except 2 cycles max) HAZARDOUS SUBSTANCE: Pb - free and RoHS Compliant. CHANICAL: SHOCK: MIL-STD-883, Method 2002, Condition B SOLDERABILITY: JESD22-B102-D Method 2 (Preconditioning	2 Pb-	-free devices		
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	gE)			
TERMINAL STRENGTH: MIL-STD-883, Method 2004, Test Co	ondit	ion D		
GROSS LEAK: MIL-STD-883, Method 1014, Condition C				
FINE LEAK: MIL-STD-883, Method 1014, Condition A2, R1=2x	x10 ⁻⁸	atm cc/s		
SOLVENT RESISTANCE: MIL-STD-202, Method 215				
ESTED IR REFLOW PROFILE				
IPC-JEDEC J-STD-020D				
260				
	ote:			
		Stage	Temperature	Time
	A	Preheat	150~200°C	60~120 Sec
	B	Primary Heat	217°C	60~150 Sec
	C	Peak	260°C	111 Sec

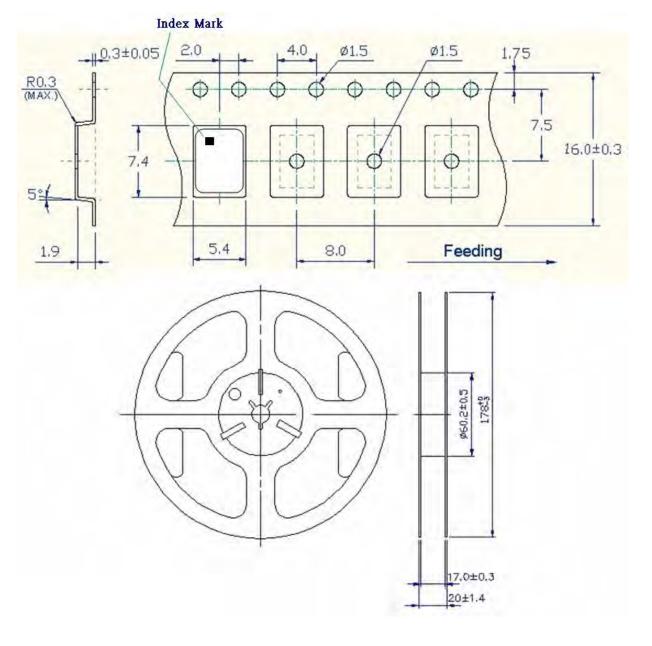




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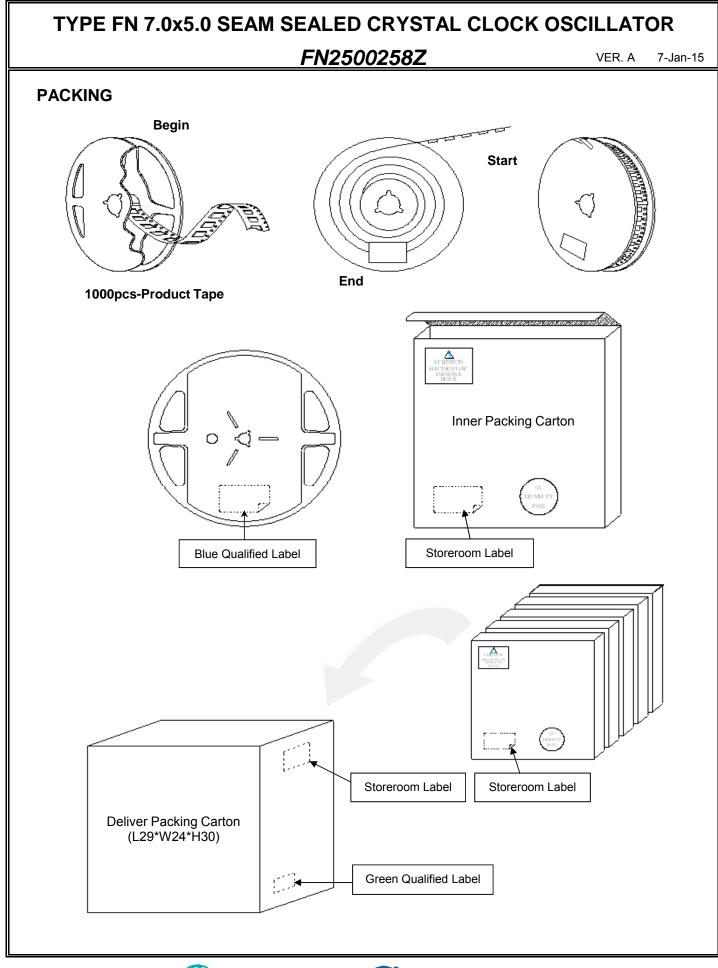
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TAPE&REEL



- 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.

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Mouser Electronics

Authorized Distributor

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