



SPECIFICATION FOR APPROVAL

CUSTOMER	
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NOMINAL FREQUENCY

PRODUCT TYPE

100.00000 MHz

TYPE NX 7.0x5.0 SEAM SEALED CRYSTAL CLOCK OSCILLATOR

SPEC. NO. (P/N)

CUSTOMER P/N

ISSUE DATE

VERSION

NX72A00013

June 6, 2018

В

APPROVED	PREPARED	QA
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*Pb-free

*RoHS Compliant

*HF-Halogen Free

*REACH Compliant

NX72A00013

VER. B 6-Jun-18

VERSION HISTORY

Version No.	Version Date	Description	Notes
A	Nov.21,2016	Initial Release	
В	Jun.6,2018	Updated Logo	



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ELECTRICAL SPECIFICATIONS

SRe Part Number : NX72A00013

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fo	100.000000	MHz	
Frequency Stability	FT	± 50	ppm	**See note
Operating Temperature Range	TR	-40 to +85	C	
Supply Voltage	V _{CC}	+2.5 ± 5.0%	V	
Logic Type	LT	LVPECL		
Supply Current, Output Enabled	I _{CC} /OE	80	mA	Max.
Supply Current, Output Disabled	I _{CC} /OD	40	mA	Max.
Duty Cycle (Symmetry)	DC/SY	45 / 55	%	Measured 50% of Waveform
Rise / Fall Time	T _R /T _F	400	ps	Max. measured 20/80% of Waveform
Output Voltage "0" Level	V _{OL}	V _{CC} -1.55V	V	Max.
Output Voltage "1" Level	V _{OH}	V _{CC} -1.2V	V	Min.
Output Load		50 Ω to $~V_{CC}$ -2V		
Jitter, Phase	RMS	0.7	ps	Max. 12KHz ~ 20MHz Frequency Band
Jitter, Accumulated	RMS(1-σ)	6	ps	Max. 20,000 Consecutive Periods
Jitter, Peak to Peak	Pk-Pk	40	ps	Max. 100,000 Random Periods
Storage Temperature Range		-55 to +125	ĉ	

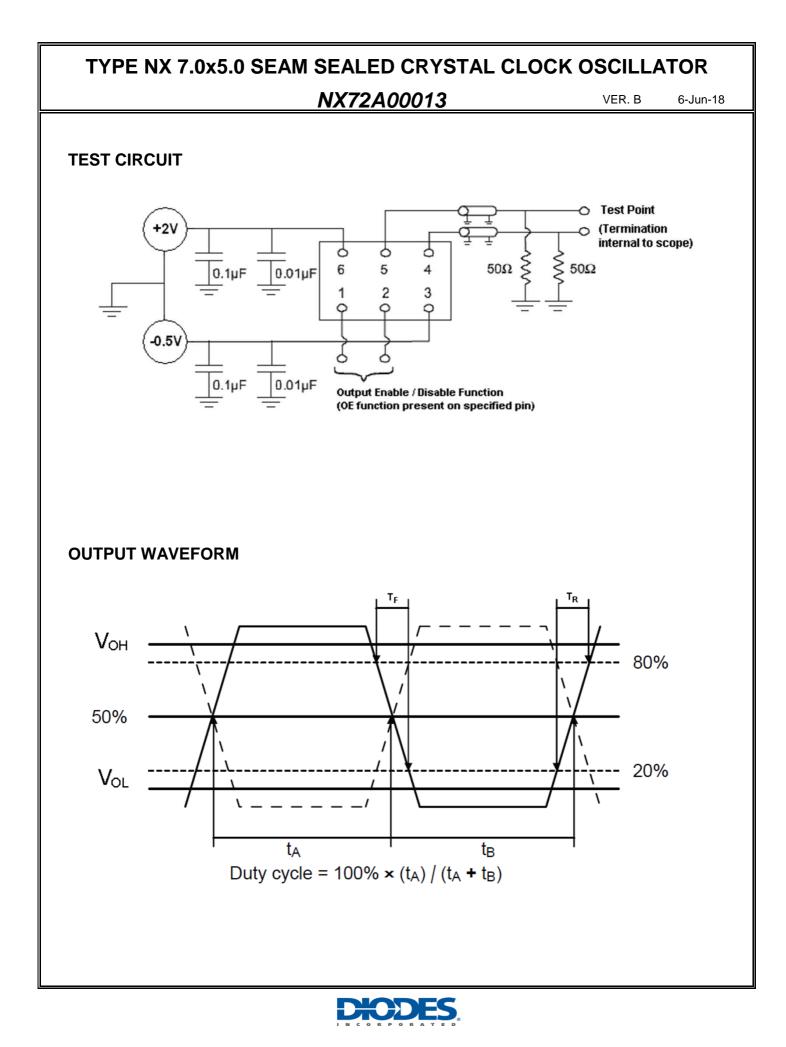
🔆 This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb - Free).

**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	$0.7V_{CC}$			V	Or Open
Input Voltage (Pin1), Output Disable (low power standby)			$0.3V_{CC}$	V	Output is Hi-Z
Output Disable Delay			100	ns	
Output Enable Delay			100	ns	
Start Up Time			10	ms	



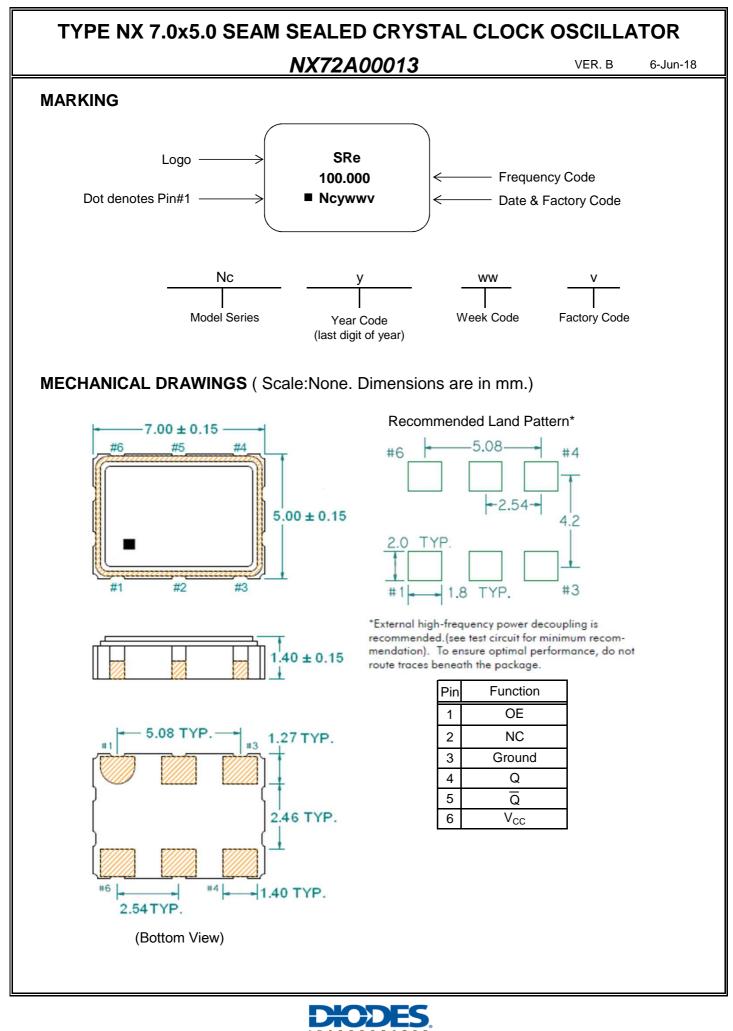


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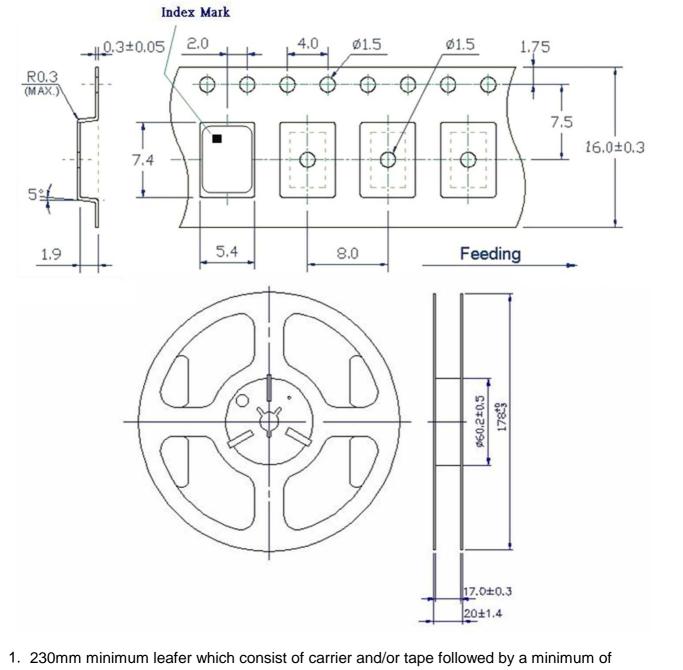
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RELIABILITY SPECIFICATIONS					
ENVIRONMENTAL:					
a) THERMAL SHOCK: MIL-STD-883, Method 1011, Cor	ndition A				
b) MOISTURE RESISTANCE: MIL-STD-883, Method 10	04				
c) VIBRATION: MIL-STD-883, Method 2007, Condition	Ą				
 d) RESISTANCE TO SOLDERING HEAT: J-STD-020D (except 2 cycles max) 	Table 5-2	2 Pb-free devi	ces		
e) HAZARDOUS SUBSTANCE: Pb - free and RoHS/Gre	en Com	pliant.			
MECHANICAL:					
a) SHOCK: MIL-STD-883, Method 2002, Condition B					
b) SOLDERABILITY: JESD22-B102-D Method 2 (Preco	nditioning	ıF)			
c) TERMINAL STRENGTH: MIL-STD-883, Method 2004					
d) GROSS LEAK: MIL-STD-883, Method 1014, Conditio					
		40 ⁻⁸ - 1 (-			
e) FINE LEAK: MIL-STD-883, Method 1014, Condition A		x10° atm cc/s	i		
f) SOLVENT RESISTANCE: MIL-STD-202, Method 215					
SUGGESTED IR REFLOW PROFILE					
*As per IPC-JEDEC J-STD-020D					
260					
	Note				
	Note	Stage	Temperature	Time	
	Note A		Temperature 150~200°C	Time 60~120 Sec	
Temperature		Stage	1	S	





TYPE NX 7.0x5.0 SEAM SEALED CRYSTAL CLOCK OSCILLATOR NX72A00013 VER. B 6-Jun-18 TAPE&REEL Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3"



- 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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PACKING

