					ROHS (	COMPLIANT
		APPR	OVAL SH	IEET		
	Customer :					
	Part Number:					
	Part No.:	114	1409330	0.000	1	
	Holder :	OC	XO-14			
	Frequency:	93.	3MHz			
	Manufacturer:					
	Date:	202	23-03-22			
	Prepared	Che	ecked	Ą	oproved	
(For Customer Use)						
	Acceptable	e Non-		-Acceptable		

Revision History					
No.	Revised Date	Change Content	Approved	Remark	
1.0	2023-3-22	Initial Release			

## 1. Scope

This document describes technical guidelines of product 11414093300.0001

## 2. Electrical Characteristics

		SINEWAVE OUTPUT	OCXO-14			
PARAMETER	SYMBO L	CONDITIONS	MIN	TYPE	МАХ	UNIT
Normal Frequency	Fn			93.3		MHz
Absolute maxin	num ratings	5				
Maximum Supply Range	V <sub>cc</sub>	_	-0.3		+6	V
Operating Temperature range	ТА	_	-10		70	°C
Storage Temperature range			-55		125	°C
Power						
Operating Supply Voltage	Vcc		3.13	3.3	3.46	V
Turn-On Current		Nom Vcc			2.5	W
Steady state Current		Ta=25℃			1	W
Frequency Stat	oility					
Calibration		TA=25°C		±0.3	±0.5	ppm
Freq VS Temperature	TS	-10℃ to 70℃			±200	ppb
Freq VS Time		Per day			±50	ppb
(Aging)		1st year			±1.5	ppm
		10 years			±4	ppm
Warm up time		time to ±0.5 of Fn			3	minutes
Output paramet	ers					
Output signal		-		sine wave		-
Output load		Output to ground		50		Ω

Output power	Load=50 Ω		5		dBc
Harmonic	Load=50 Ω			-30	dBc
Spurious	Load=50 Ω			-75	dBc
	1	0Hz	-90		dBc/Hz
	10	00Hz	-110		dBc/Hz
Phase noise	1	KHz	-135		dBc/Hz
	10	KHz	-145		dBc/Hz
3. Construction					

## 1. Oscillator enclosure seal:

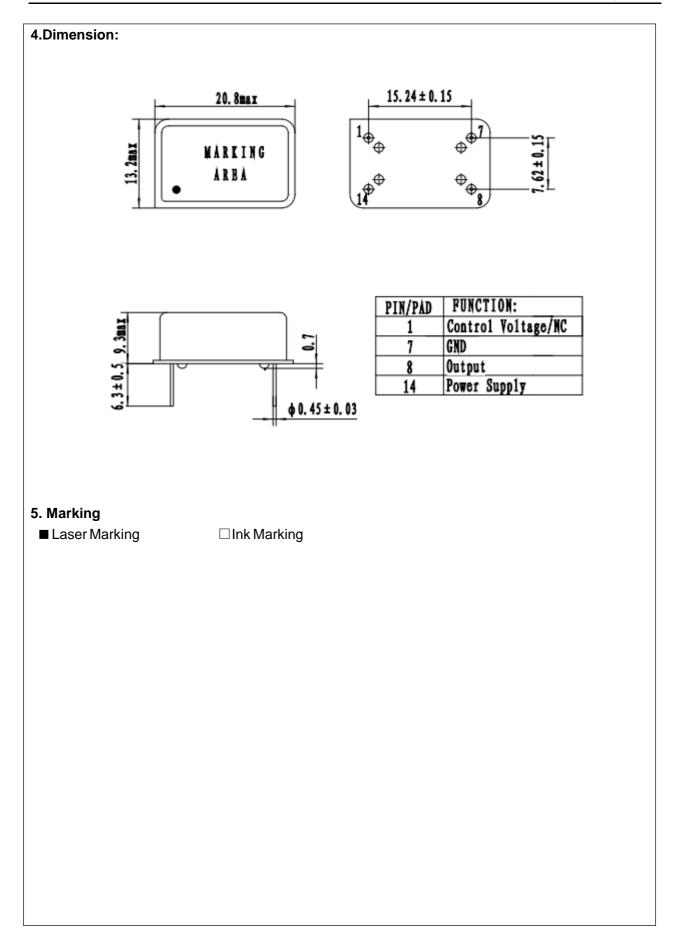
□ Seam seal ■resistance weld □ cold weld

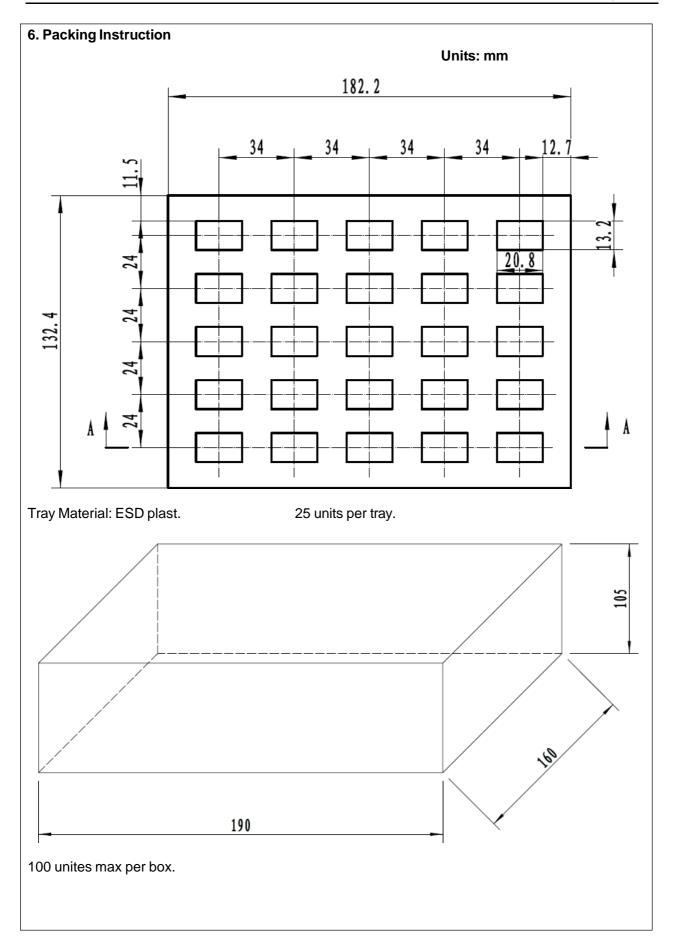
2. crystal enclosure medium

□nitrogen

vacuum

 $\Box$ dry air





	Item	Condition	Specifications
1	Reflow	3X 240°C Peak	∆F≤±0.2ppm
	Simulation	20 secs max above 240°C	
7.2	Power Cycl	100 Cycles -40°C, 30 minutes no power (off) and 30 minutes powered (on)	∆F≤±0.2ppm
		<ul> <li> Test product for functionality</li> <li> Continue for another 250 cycles</li> <li> Test product for functionality</li> <li> Intenal visual and mechanical inspection</li> </ul>	
. 3	Thermal Shock	Subject samples to temperature extremes of –40 and +125C, 30 minute soaks at the temperature extremes, 10 seconds maximum transition time between extremes. The test duration is 10 Cycles GJB 360A-96 Method 107.	∆F≤±0.2ppm
. 4	Mechanical Shock	IEC 68-2-27 Test Ea	∆F≤±0.2ppm
. 5	Vibration	IEC 68-2-06 Test Fc	∆F≤±0.2ppm
. 6	Free drop	Drop from 10cm height on 3cm hard wooden board for 6 times GB2423.8-1995 (idt IEC 68-2-32:1990) Method Ed。	∆F≤±0.2ppm
7.7	Aging	Bias oscillators at nominal voltage and subject oscillators to 25C for 1008 hours. Readings are to be	Per. Spec.
		taken with oscillator at 25C twice per day. Determine aging (frequency shift post 1008 hours minus initial	
		frequency). Use the results to predict long-term aging.	
. 8	Solderability	Precondition parts by steaming (over boiling water) for 8 hours OR age the parts at 150C for 16 hours	A new uniform coating of solder shall cover a minimum of 95% of the surface being immersed.

## 8.All products are RoHs compliant

