					ROHS	COMPLIANT	
		APPR	OVAL SH	IEET			
	Customer :						
	Part Number:						
	Part No.:	114	1401280	0.000	2		
	Holder :	00	XO-14				
	Frequency:	12.	8MHz				
	Manufacturer:						
	Date:	202	23-03-22				
	Prepared	Che	ecked	Aŗ	proved		
(For Customer U	se)						
	Acceptable	e	Non-Acceptable		able		

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

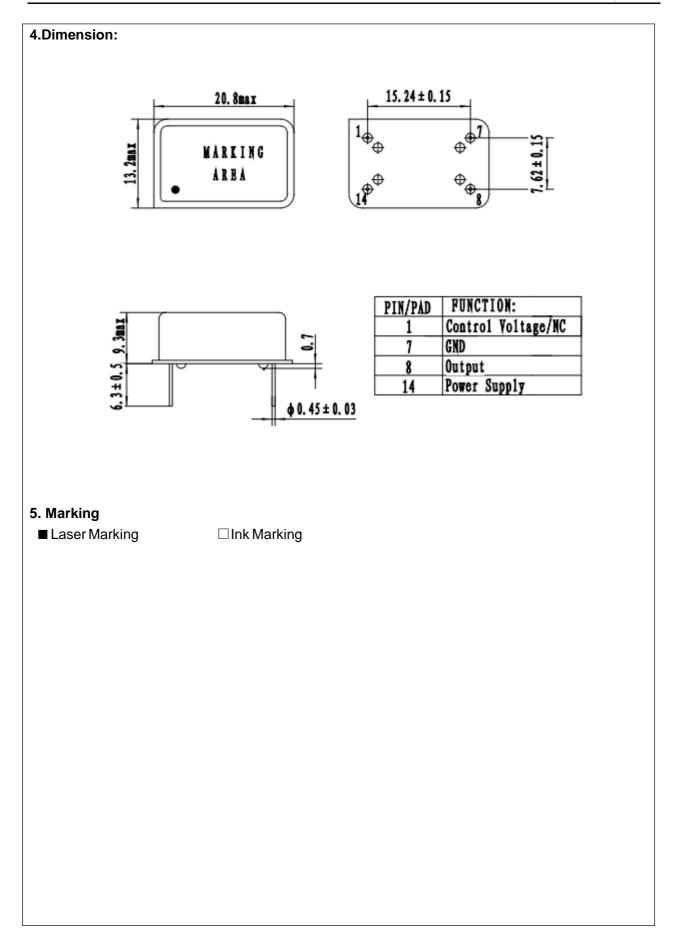
## 1. Scope

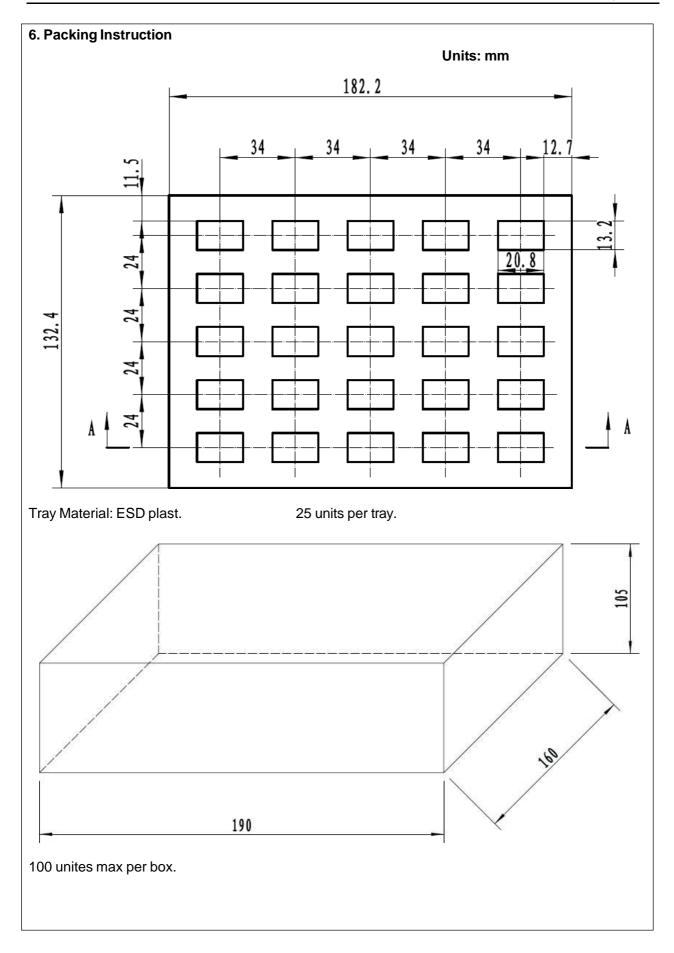
This document describes technical guidelines of product 11414012800.0002

## 2. Electrical Characteristics

SINEWAVE OUTPUT OCXO-14						
PARAMETER	SYMBO L	CONDITIONS	MIN	TYPE	МАХ	UNIT
Normal Frequency	Fn	AT		12.8		MHz
Absolute maxin	num ratings	5				
Maximum Supply Range	V <sub>cc</sub>	-	-0.3		+6	V
Operating Temperature range	ТА	_	-40		70	°C
Storage Temperature range			-55		100	°C
Power		•				
Operating Supply Voltage	Vcc		4.75	5	5.25	V
Turn-On Current		Nom Vcc			2.5	W
Steady state Current		Ta=25℃			1	w
Frequency Stat	oility					
Calibration		TA=25℃		±0.3	±0.5	ppm
Freq VS Temperature	TS	-40°C to 70°C			±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
Electrical Frequ	iency Contr	ol		:		
Control Voltage Range	Vc	VC Transfer is positive monotonic	0		4	V

Control Voltage at f0	V <sub>CfO</sub>	25°C at time of shipment		2		v
Pulling Range				±5		ppm
Input impedance (Zi)			100			ΚΩ
EFC Linearity					10	%
Output paramete	rs					·
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
		10Hz		-100		dBc/Hz
		100Hz		-130		dBc/Hz
Phase noise		1KHz		-145		dBc/Hz
		10KHz		-150		dBc/Hz
	l ∎re	sistance weld $\Box$ cold weld				
. Oscillator enclos	I ∎re e medium					





	Item	Condition	Specifications
7.1	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

