				ROHS	COMPLIANT		
		APPR	OVAL SH	IEET			
	Customer :						
	Part Number:						
	Part No.:	114	1410485	7.0001			
	Holder :	00	XO-14				
	Frequency:	104	4.857MH	Z			
	Manufacturer:						
	Date:	202	23-03-22				
	Prepared	Ch	ecked	Approved			
(For Customer Use)							
	Acceptable	9	Non-Acceptable				

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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 11414104857.0001

2. Electrical Characteristics

HCMOS OUTPUT OCXO-14						
PARAMETER	SYMBO L	CONDITIONS	MIN	TYPE	МАХ	UNIT
Normal Frequency	Fn	AT		104.48576		MHz
Absolute maxin	num ratings	6				
Maximum Supply Range	Vcc	-	-0.3		+5.5	V
Operating Temperature range	ТА	-	-40		80	°C
Storage Temperature range			-40		85	°C
Power						
Operating Supply Voltage	V _{cc}		4.75	5	5.25	V
Turn-On Current		Nom Vcc			2.5	W
Steady state Current		Ta=25℃			1	W
Frequency Stat	oility		l			ļ
Calibration		T _A =25℃			±1	ppm
Freq VS Temperature	Ts	0°C to 70°C			±1	ppm
Freq VS Time (Aging)		1st year			±1.5	ppm
(י ישייש)		10 years			±4	ppm
Warm up time		time to ± 0.5 of F_n			3	minutes
Output paramet	ters					
Output signal		-		HCMOS		
Output load		Output to ground	13.5	15	16.5	pF

Output Level	V _{OH}	High Level	4.5			V
	V _{OL}	Low Level			0.5	V
Duty Cycle			45	50	55	%
Rise time/ Fall time					5	ns
		10Hz		-80		dBc/Hz
Phase noise		100Hz		-110		dBc/Hz
		1KHz		-130		dBc/Hz
		10KHz		-140		dBc/Hz

3. Construction

1. Oscillator enclosure seal:

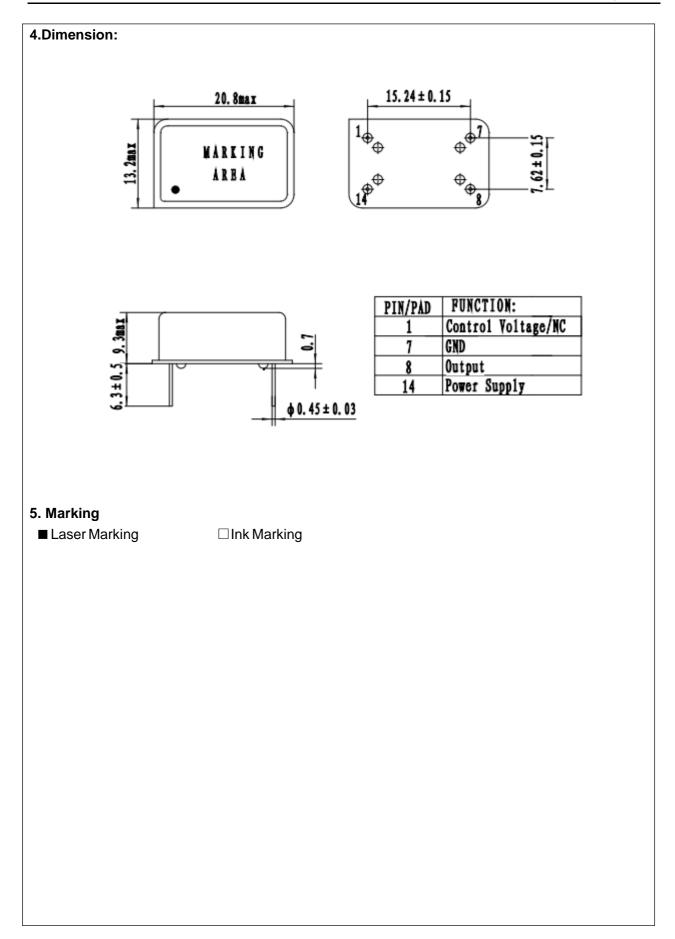
□ Seam seal ■resistance weld □ cold weld

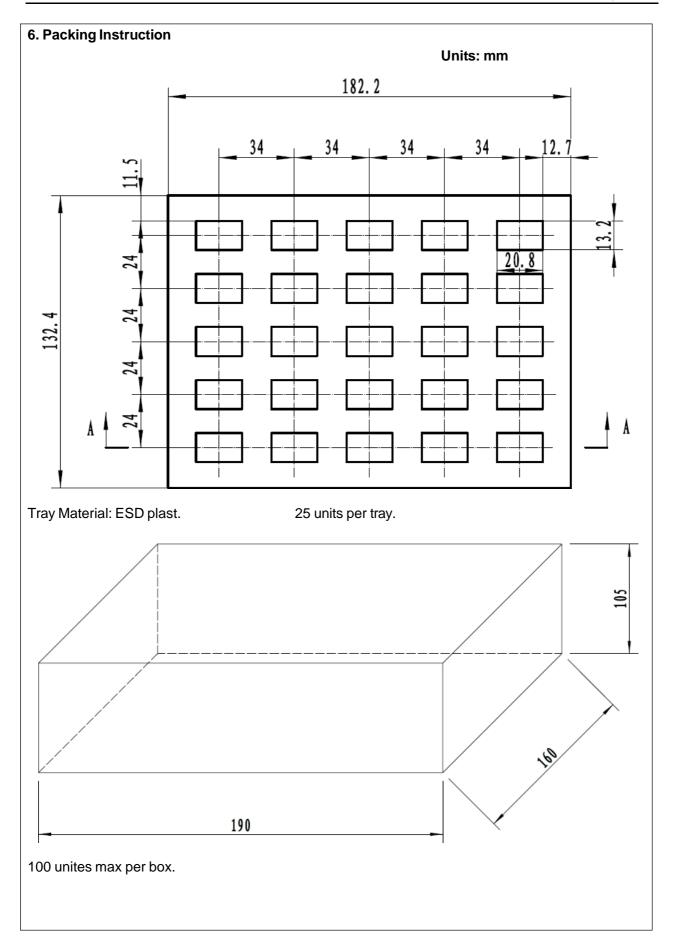
2. crystal enclosure medium

□nitrogen

∎vacuum

 \Box dry air





	Item	Condition	Specifications
7.1	Reflow	3X 240°C Peak	∆F≤±0.2ppm
	Simulation	20 secs max above 240°C	
7.2	Power Cycl	100 Cycles	∆F≤±0.2ppm
		-40°C, 30 minutes no power (off) and 30 minutes	
		powered (on)	
		Test product for functionality	
		Continue for another 250 cycles	
		Test product for functionality	
		Intenal visual and mechanical inspection	
7.3	Thermal Shock	Subject samples to temperature extremes of –40 and	∆F≤±0.2ppm
		+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.	
.4	Mechanical Shock	IEC 68-2-27 Test Ea	∆F≤±0.2ppm
. 5	Vibration	IEC 68-2-06 Test Fc	∆F≤±0.2ppm
7.6 I	Free drop	Drop from 10cm height on 3cm hard wooden board for 6	∆F≤±0.2ppm
		GB2423.8-1995 (idt IEC 68-2-32:1990) Method Ed。	
7.7	Aging	Bias oscillators at nominal voltage and subject	Per. Spec.
		oscillators to 25C for 1008 hours. Readings are to be	
		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.	
7.8	Solderability	Precondition parts by steaming (over boiling water) for 8	A new uniform coating of
		hours OR age the parts at 150C for 16 hours	solder shall cover a minimum of 95% of the surface being immersed.

8.All products are RoHs compliant

