

产品规格书

Product Specification

CUSTOMER 客户: _____

CUSTOMER PN 客户 PN: _____

HANG CRYSTAL P/N 杭晶物料编码: 5715S6-10.000G33HPNO

MODEL 产品型号: OCXO 15x10mm SMD, Sine wave, 3.3V

NOMINAL FREQUENCY 频率: 10.000MHz

ISSUE DATE 日期: 2024 / 07 / 22

CUSTOMER'S APPROVAL

客户确认

(PLEASE RETURN A COPY WITH APPROVAL)
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APPROVED

QA

MB.

J Jiang

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Revision	Description / ECN	Prepared	Approved	Date
1	Initial release	MB	James Jiang	2024-07-22
2	Not issued			
3	Not issued			
4	Not issued			

1. NOMINAL AND MAXIMUM RATINGS, OPERATING AND STORAGE CONDITIONS

	PARAMETER	SYMB.	MIN	TYP	MAX	Unit	Conditions / Remarks
1	Nominal frequency	F_N	10.000			MHz	--
2	Operating supply voltage range	V_{CC}	3.135	3.3	3.465	V_{DC}	
3	Output load resistance	R_L		50		Ω	Sine wave output
4	Operating temperature range	T_{OP}	-20	+25	+70	$^{\circ}C$	
5	Storage Temperature Range	T_{ST}	-55		105	$^{\circ}C$	--

Note 1: over the whole range, the unit stays within all relevant parameter limits as specified under point 2.

2. ELECTRICAL PARAMETER LIMITS

	PARAMETER	SYMB.	MIN	TYP	MAX	Unit	Conditions / Remarks
1	Initial Frequency Accuracy	$\Delta f/F_N$	-100		+100	ppb	Offset from nominal at +25 $^{\circ}C$
2	Frequency stability over T_{OP}	$\Delta f/F_{OP}$	-50		+50	ppb	Over T_{OP} Note 1
3	Short Term Stability (in still air)				0.05	ppb/s	Max. 2 times reflow, after 24h
4	Warm-up Time				1.0	min	Within ± 100 ppb of final frequency with reference after 1 hour on@+25 $^{\circ}C$
5	Frequency VS voltage changes	$\Delta f/F_V$	-5		+5	ppb	$V_{CC} \pm 5\%$ at +25 $^{\circ}C$
6	Frequency VS load changes	$\Delta f/F_L$	-5		+5	ppb	$R_L//CL \pm 10\%$ at +25 $^{\circ}C$
7	Aging per day	$\Delta f/F_{Ad}$	-1.0		+1.0	ppb	Aging after 30 days of operation
8	Aging first year	$\Delta f/F_{A1}$	-150		+150	ppb	
9	Output level	V_{P-P}	+7.0		+9.0	dBm	Sine wave, Load 50 Ω
10	Harmonic level				-30	dBc	
11	Spurious				-80	dBc	
12	Phase noise	L_{RMS}			-95	dBc/Hz	at 10Hz offset / at +25 $^{\circ}C$
				-125	at 100Hz offset / at +25 $^{\circ}C$		
				-145	at 1kHz offset / at +25 $^{\circ}C$		
				-150	at 10kHz offset / at +25 $^{\circ}C$		
				-150	at 100kHz offset / at +25 $^{\circ}C$		
13	Operating Current	I_{CC}			750	mA	During warm up
					250		At steady state, @25 $^{\circ}C$
14	Control Voltage Range	V_C				V_{DC}	NA
15	Input Impedance					K Ω	NA
16	Frequency tuning range	F_{-PULL}				ppm	NA
17	G- sensitivity				1.0	ppb/g	

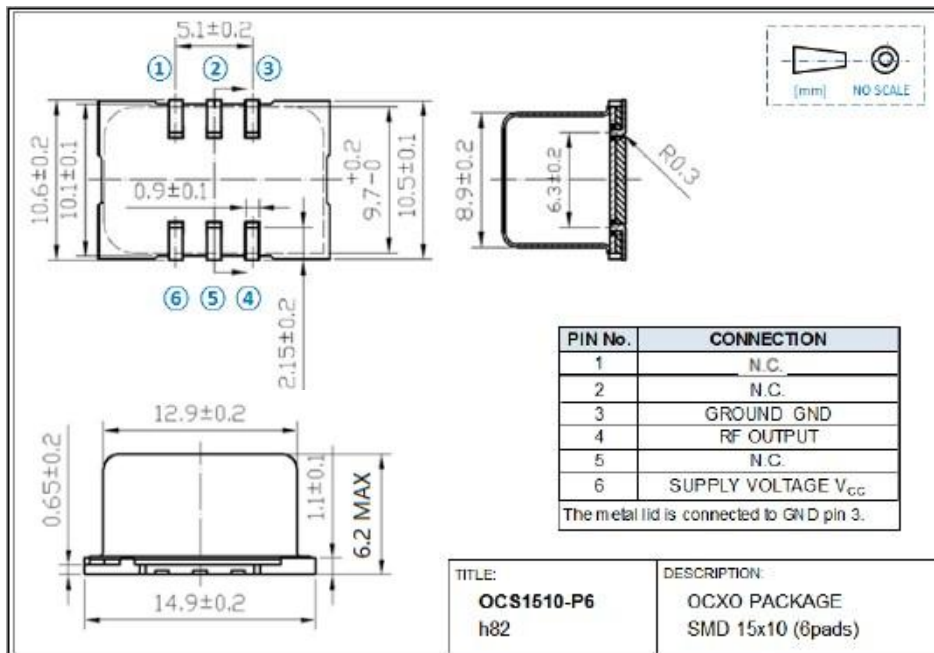
Note 1: Referenced to midpoint between minimum and maximum frequency over specified temperature range.

3. PRODUCT MARKING

To be defined.

4. OUTLINE DRAWING

	Package description	Package model	Remarks
1	15x10 SMD with 6 pads	OS1510P6h82	--



5. TEST CIRCUIT

