

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: 5236H5-10.000S50DTNOL

MODEL 产品型号: OCXO 36x27, CMOS, 5.0V

NOMINAL FREQUENCY 频率: 10.000MHz

ISSUE DATE 日期: 2023 / 06 / 13

CUSTOMER'S APPROVAL

客户确认

(PLEASE RETURN A COPY WITH APPROVAL)
(请将确认的复印件返回我司)

APPROVED

QA

MB.

J Jiang

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Revision	Description / ECN	Prepared	Approved	Date
1	Initial release	MB	James Jiang	2023-06-13
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}	4.75	5.0	5.25	V_{DC}	
3	Output load	R_L		15		pF	CMOS Level
4	Operating temperature range	T_{OP}	-40	+25	+85	°C	Note 1
5	Storage Temperature Range	T_{ST}	-55		+105	°C	--

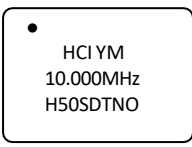
Note 1: over the whole range, the unit stays within all relevant parameter limits as specified under point 2.

2. ELECTRICAL PARAMETER LIMITS

	PARAMETER	SYMB.	MIN	TYP	MAX	Unit	Conditions / Remarks
1	Initial Frequency Accuracy	$\Delta f/F_N$	-50		+50	ppb	Offset from nominal at +25°C
2	Frequency stability over T_{OP}	$\Delta f/F_{OP}$	-0.2		+0.2	ppb	Over T_{OP} Note 1
3	Short Term Stability (in still air)				0.005	ppb/s	Max, after power on 1h
4	Warm-up Time				3.0	min	Within ± 100 ppb of final frequency with reference after 1 hour on @+25°C
5	Frequency VS voltage changes	$\Delta f/F_V$	-0.1		+0.1	ppb	$V_{CC} \pm 5\%$ at +25°C
6	Frequency VS load changes	$\Delta f/F_L$	-0.1		+0.1	ppb	$CL \pm 10\%$ at +25°C
7	Aging per day	$\Delta f/F_{Ad}$	-0.2		+0.2	ppb	Aging after 30 days of operation
8	Aging first year	$\Delta f/F_{A1}$	-30		+30	ppb	
9	Aging 10 years	$\Delta f/F_{A10}$	-0.2		+0.2	ppm	
10	Daily fluctuation		-5		+5	ppb	
11	Output voltage level HIGH	V_{OH}	2.4	2.8		V_{DC}	
12	Output voltage level LOW	V_{OL}			0.4	V_{DC}	
13	Output amplitude rise/fall time	$t_{R} t_{F}$			5.0	ns	15pF / +25°C
13	Output amplitude symmetry	DC	45		55	%	15pF / +25°C
14	Phase noise	L_{RMS}			-90	dBc/Hz	at 1Hz offset / at +25°C
					-120		at 10Hz offset / at +25°C
					-135		at 100Hz offset / at +25°C
					-145		at 1kHz offset / at +25°C
					-145		at 10kHz offset / at +25°C
					-145		at 100kHz offset / at +25°C
15	Operating Current	I_{CC}			1200	mA	During warm up
					400	mA	At steady state, @25°C

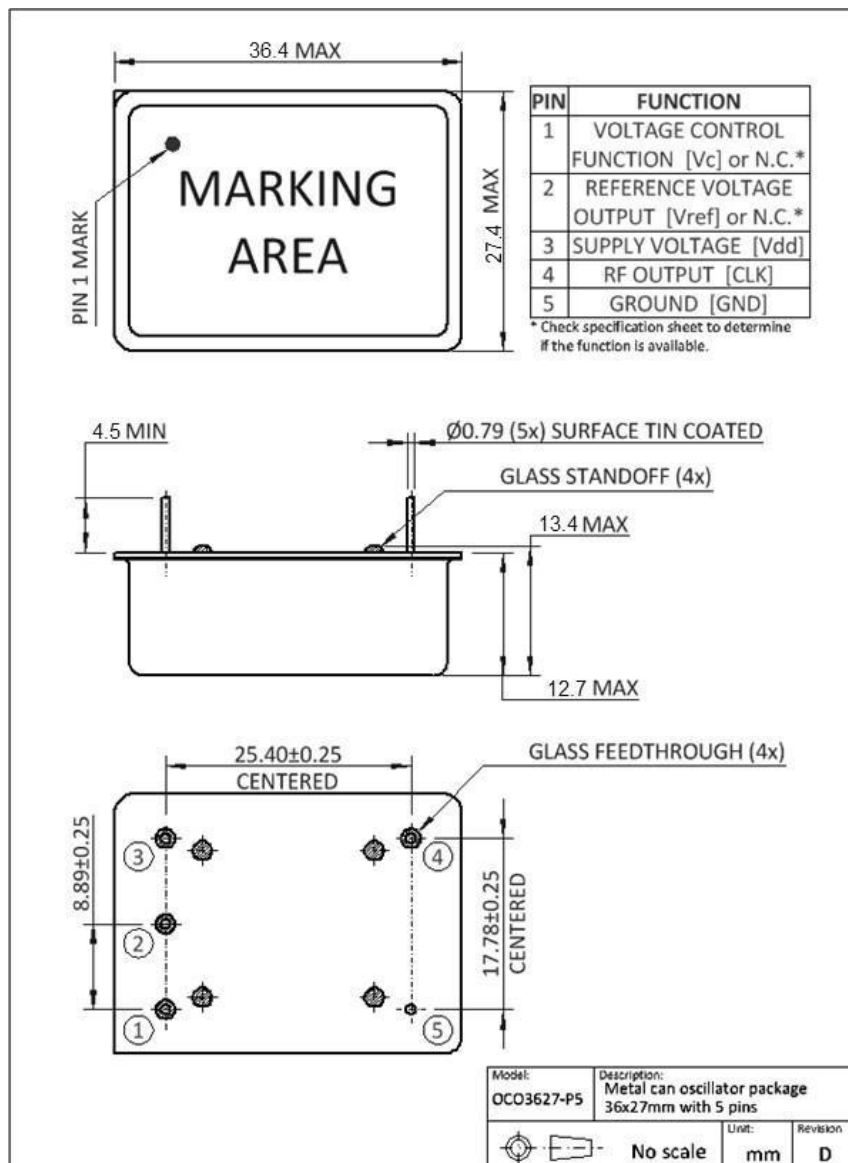
Note 1: Referenced to midpoint between minimum and maximum frequency over specified temperature range.

3. PRODUCT MARKING

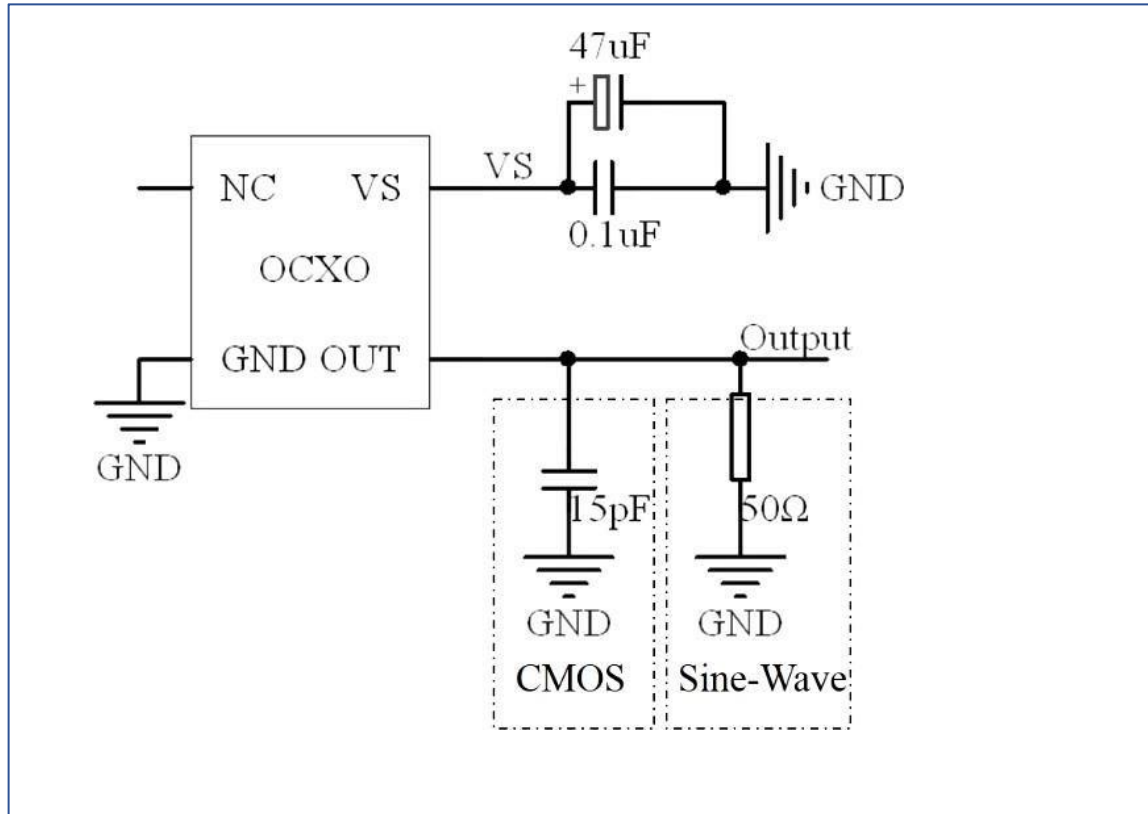
1	10.000	Nominal frequency in MHz (three digits after decimal point)											
2	HCI	Company logo											
3	Y	Year code of manufacturing (see table below)											
	Year	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
	Code	V	W	X	Y	Z	A	B	C	D	E	F	G
4	M	Month code of manufacturing (see table below)											
	Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Code	A	B	C	D	E	F	G	H	J	K	L	M

4. OUTLINE DRAWING

	Package description	Package model	Remarks
1	OCXO 36x27 SMD with 5 pins	3627-5P	--



5. TEST CIRCUIT



6. PACKAGING INFORMATION

Units packed into an antistatic foam tray