



Pin Type (VC)OCXO

JOX254S(V) sine output



customer		date: 01-11-2024
customer item number		
project		
Jauch item number	252216	



RoHS compliant



Pb free



REACH compliant

SPECIFICATION	Min	Typical	Max	Unit	Condition
frequency		100.0		MHz	
operating temperature range	-40		+70	°C	temperature code N
freq. tolerance at 25 °C	-100		+100	ppb	see condition (1a)
freq. stability vs. temperature	-50		+50	ppb	stability code E, see condition (2a)
freq. stability vs. supply voltage change	-20		+20	ppb	at Vdc +/- 5%, see condition (3)
freq. stability vs. load change	-20		+20	ppb	at nom. load +/-5%, see condition (4)
aging (1st year)	-0.3		+0.3	ppm	at room temperature, see condition (6)
frequency drift at constant temperature	-5		+5	ppb	per day, at +25°C, see condition (7)
short term frequency stability (ADEV)			0.05	ppb	tau = 1 second, test after 1h at +25°C
supply voltage	4.75	5.0	5.25	V	Vdc +/- 5%
steady current consumption			300	mA	at 25°C
warm up current consumption			800	mA	
operable temperature range	-40		+70	°C	
storage temperature range	-55		+105	°C	
output waveform		sine wave			
output load		50		Ohm	nominal load
output level	+6			dBm	sine wave
harmonics suppression			-30	dBc	
spurious suppression			-80	dBc	
VC voltage range	0.0	2.5	5.0	V	center tuning voltage and range
VC frequency tuning range	+/-1.0			ppm	at specified VC range
frequency at VC center voltage	-0.1		+0.1	ppm	referenced to nominal frequency, at nominal center voltage
VC tuning linearity			10	%	positive slope
VC input impedance	100			kOhm	
phase noise		-100	-90	dBc / Hz	at 10 Hz from carrier
phase noise		-130	-120	dBc / Hz	at 100 Hz from carrier
phase noise		-150	-145	dBc / Hz	at 1 kHz from carrier
phase noise		-165	-160	dBc / Hz	at 10 kHz from carrier
phase noise		-170	-165	dBc / Hz	at 100 kHz from carrier
moisture sensitivity level (MSL)		n.a.			not sensitive
packing unit		t.b.d.		pieces	per carton box

ORDER INFORMATION

O 100.0-JOX254SV-5-E-N-25-10X0-KDBH-LF

NOTE

The definitions of test conditions can be found here:
https://www.jauch.com/downloadfile/659facd821fb884b5336556c0385aefc1/jauch_ocxo_test_definitions_1v0_20240111.pdf

MARKING INFORMATION

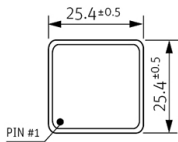
Jauch
frequency
model and spec code
date code (YY/WW)



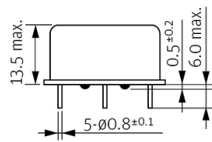
Pin Type (VC)OCXO JOX254S(V) sine output



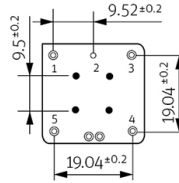
DIMENSION in mm



top view



side view



bottom view

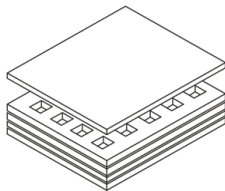
OCXO
JOX254
1: output
2: GND
3: NC
4: NC
5: V_{DC}

pin connection

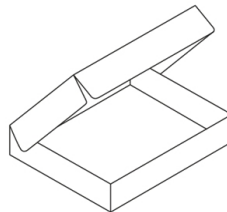
VCOXO
JOX254V
1: output
2: GND
3: V_{Control}
4: NC (option ref. voltage)
5: V_{DC}

in mm

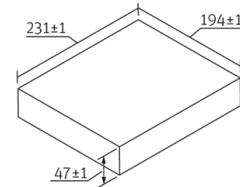
TAPING SPECIFICATION in mm



buffer material



cardboard – max. 20 pcs



dimensions in mm