



Pin Type (VC)OCXO

JOX254S(V) sine output



customer		date: 01-11-2024
customer item number		
project		
Jauch item number	252215	



RoHS compliant



Pb free



REACH compliant

SPECIFICATION	Min	Typical	Max	Unit	Condition
frequency		10.0		MHz	
operating temperature range	-40		+85	°C	temperature code K
freq. tolerance at 25 °C	-50		+50	ppb	see condition (1a)
freq. stability vs. temperature	-0.5		+0.5	ppb	stability code N, see condition (2a)
freq. stability vs. supply voltage change	-0.2		+0.2	ppb	at Vdc +/- 5%, see condition (3)
freq. stability vs. load change	-0.2		+0.2	ppb	at nom. load +/-5%, see condition (4)
aging (1st year)	-50		+50	ppb	at room temperature, see condition (6)
frequency drift at constant temperature	-0.5		+0.5	ppb	per day, at +25°C, see condition (7)
short term frequency stability (ADEV)			0.01	ppb	tau = 1 second
supply voltage	4.75	5.0	5.25	V	Vdc +/- 5%
steady power consumption			2	W	at 25°C
warm up power consumption			4	W	
warm up time			5	minutes	at+25°C, see condition (14)
warm up frequency difference			+/-10	ppb	see condition (14)
operable temperature range	-40		+85	°C	
storage temperature range	-45		+105	°C	
output waveform		sine wave			
output load		50		Ohm	nominal load
output level	+6		+10	dBm	sine wave
harmonics suppression			-40	dBc	
spurious suppression			-60	dBc	
VC voltage range	0	2.5	5.0	V	center tuning voltage and range
VC frequency tuning range	+/-0.5			ppm	at specified VC range
frequency at VC center voltage	-50		+50	ppb	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 1 Hz from carrier
phase noise		-130	-125	dBc / Hz	at 10 Hz from carrier
phase noise		-150	-140	dBc / Hz	at 100 Hz from carrier
phase noise		-160	-155	dBc / Hz	at 1 kHz from carrier
phase noise		-160	-155	dBc / Hz	at 10 kHz from carrier
moisture sensitivity level (MSL)		n.a.			not sensitive
packing unit		t.b.d.		pieces	per carton box

ORDER INFORMATION

O 10.0-JOX254SV-5-N-K-25-05X0-MDBE-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)

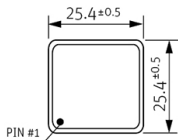


Pin Type (VC)OCXO

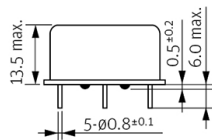
JOX254S(V) sine output



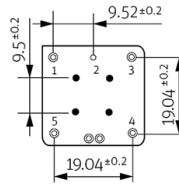
DIMENSION in mm



top view



side view



bottom view

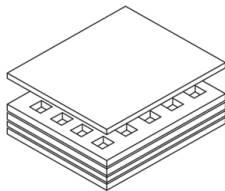
OCXO
JOX254
1: output
2: GND
3: NC
4: NC
5: V_{DC}

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

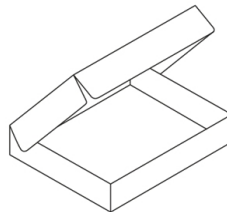
pin connection

in mm

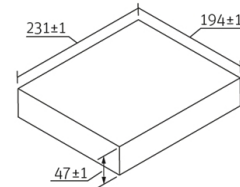
TAPING SPECIFICATION in mm



buffer material



cardboard – max. 20 pcs



dimensions in mm