



Pin Type (VC)OCXO

JOX254H(V) HCMOS output



customer		date: 01-11-2024
customer item number		
project		
Jauch item number	252217	



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, test after 1h at +25°C
supply voltage	4.75	5.00	5.25	V	Vdc +/- 5%
steady current consumption			400	mA	at 25°C
warm up current consumption			800	mA	
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		HCMOS			
output load		15		pF	nominal load
output low level			0.4	V	
output high level	2.4			V	
output rise & fall time			5	ns	at 10% <-> 90% of waveform
output symmetry	45	50	55	%	at 50% of waveform
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
VC tuning linearity			10	%	positive slope
VC input impedance	100			kOhm	
phase noise		-100	-90	dBc / Hz	at 1 Hz from carrier
phase noise		-120	-110	dBc / Hz	at 10 Hz from carrier
phase noise		-150	-140	dBc / Hz	at 100 Hz from carrier
phase noise		-155	-150	dBc / Hz	at 1 kHz from carrier
phase noise		-160	-155	dBc / Hz	at 10 kHz from carrier
phase noise		-160	-155	dBc / Hz	at 100 kHz from carrier
phase noise		-160	-155	dBc / Hz	at 1 MHz from carrier
moisture sensitivity level (MSL)		n.a.			not sensitive
packing unit		t.b.d.		pieces	per carton box

ORDER INFORMATION

O 10.0-JOX254HV-5-N-K-25-05X0-MCBE-LF

NOTE

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



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MARKING INFORMATION

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

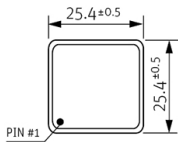


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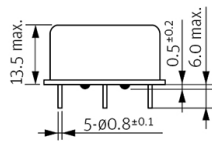
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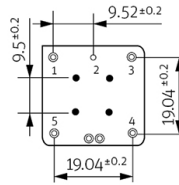
DIMENSION in mm



top view



side view



bottom view

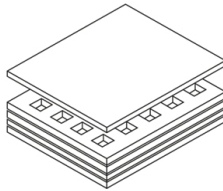
OCXO
JOX254
1: output
2: GND
3: NC
4: NC
5: V_{DC}

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

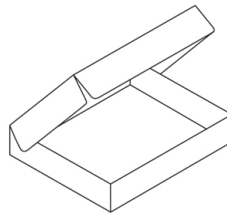
pin connection

in mm

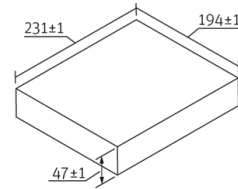
TAPING SPECIFICATION in mm



buffer material



cardboard – max. 20 pcs



dimensions in mm