



Oven Controlled Crystal Oscillator

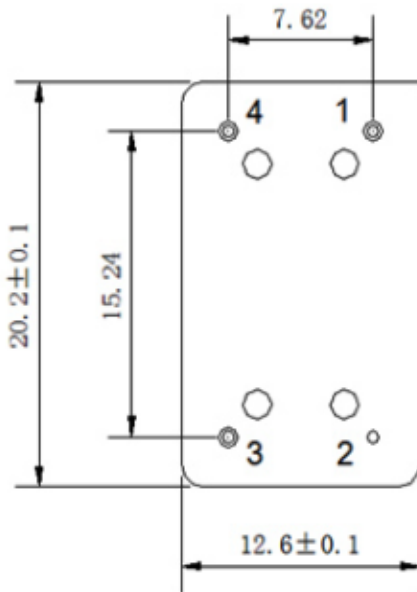
Specifications:

Parameter		Value			unit	conditions
		Min.	Typ.	Max.		
Frequency Range		0.0327 68	10	40	MHz	
Supply Voltage			3.3		V	
			5.0		V	
Power Consumption				3.0	W	During Warming-up
				1.5	W	Steady at +25℃ & still air
Initial Frequency Tolerance				±100	ppb	At shipment, nominal EFC, +25℃
Freq. Stability		±20		±50	ppb	-20℃ ~ +70℃
		±50		±100	ppb	-40℃ ~ +70℃
		±50		±100	ppb	-40℃ ~ +85℃
				±200	ppb	-55℃ ~ +85℃
Sine	Output Level	7			dBm	
	Harmonious			-30	dBc	
	Spurious			-70	dBc	
	Load		50		Ω	
LVTTL	VOH	2.4			V	LVTTL Output, Load=15pF
	VOL			0.4	V	LVTTL Output, Load=15pF
	Duty Cycle	45		55	%	(VOH- VOL)/2
	Rise/Fall edge			6	nS	LVTTL Output, Load=15pF
	Load		15		pF	
Supply Sensitivity				±5	ppb	Vcc±5%
Load Sensitivity				±5	ppb	Load±5%
Aging per Day				±2	ppb	After 30 days of operation
Aging per year				±200	ppb	After 30 days of operation
Control Voltage Range		0		3	V	
		0		5	V	
Frequency Turning Range		±0.5		±2.0	ppm	
Tuning Slope		Positive				
SSB Phase Noise @ 10MHz		-95			dBc/Hz	Offset 10Hz
		-120				Offset 100Hz
		-150				Offset 1kHz
		-155				Offset 10kHz
		-160				Offset 100kHz
Operating Temperature Range		-55℃~+85℃		Storage Temperature Range		-55℃~+125℃

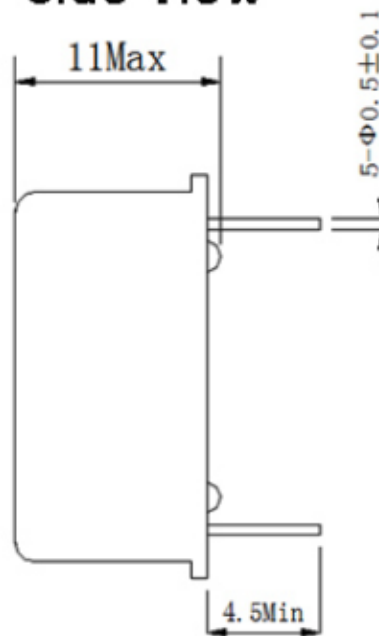
Outline Dimension & Pin Connections

Unit : mm

Bottom View



Side View



pin	Definition
1	Vcon
2	GND
3	OUT
4	Vcc

Ordering Guide

HDE OC 2012 L M G N 05 S - **.*****

Company abbreviation

Production: OCXO

Outline: 20*12.8

Working Temp.

E: -20℃~+70℃

F: -30℃~+80℃

G: -40℃~+85℃

Stability

K: ±100ppb

L: ±50ppb

M: ±10ppb

N: ±5ppb

Frequency in MHz

Out Wave: H:LVTTTL; S:Sine wave

Supply Voltage: 12:12V; 05:5.0V; 03:0.3V

Tuning

N: No Tuning

I: ±1ppm

J: ±0.5ppm

Phase Noise

E: -130dBc/Hz@1kHz

F: -140dBc/Hz@1kHz

G: -145dBc/Hz@1kHz

H: -150dBc/Hz@1kHz