YIC OCXO & VCOCXO (OX10084 / VOX10084 Series)

(V) OX Series : (Voltage-Controlled) Oven Controlled Crystal Oscillators 9.7 x 7.5 mm 4 Pads **10.000 ~ 40.000MHz**

● SPECIFICATION

Frequency Range		10.000 ~ 40.000 MHz	
Frequency Tolerance		± 200 PPB	
Frequency Stability		± 5 PPB ~ ± 50 PPB	
Input Voltage (V_{DD})		+ 3.3 V , + 5 V	
Operation Temperature		-20°C ~ +70°C Typical , (-40°C ~ +85°C Available)	
Square Wave Output	Duty Cycle	45 ~ 55% measured at 50% V_{DD}	
	Rise Time & Fall Time	8 ns max. (90% ←→ 10%) V_{DD}	
	Load	15 pF	
	Voltage Level High	2.4 V min.	
	Voltage Level Low	0.4 V max.	
Clipped Sine Wave Output	Load	10 KΩ // 10 pF	
	Vpp	0.8 Vp-p min.	
Voltage Control(VCOCXO)	Control Voltage Range	3.3 V	5 V
		1.65 V±1.65 V	2.5 V±2.5 V
	Pulling Range	± 500 PPB min.	
	Input Impedance	50 KΩ min.	
Phase Noise		-125 dBc / -145 dBc / -150 dBc @ 100 Hz / 1K Hz / 10K Hz	
Phase Jitter RMS		< 1 ps	
Warm-up		1.5 W max. at 25°C	
Power Dissipation		0.4 W at steady-state at 25°C	
Aging at 25°C		± 600 PPB max. in the 1st year	

● PART NUMBERING

OX / VOX — [Packing Code] – [Input Voltage] [Output Code] [Operation Temperature] – [Frequency] – [Stability]

Packing Code

OX : OCXO
VOX : VCOCXO

SMD Type:
14106 : 14.3x9.3x8.0H)mm,6Pad
10084 : 9.7x7.5x3.9(H)mm,4Pad

Input Voltage

3.3 : 3.3V
5 : 5V

Output Code

C : CLipped Sine Wave
S : Sine Wave
T : CMOS Square Wave

Operation Temperature

1 : -10~+60°C
Blank : -10~+70°C
2 : -20~+70°C
27 : -20~+75°C
28 : -20~+85°C
37 : -30~+75°C
3 : -30~+80°C
38 : -30~+85°C
I : -40~+85°C
A : -40~+105°C
B : -40~+125°C
C : -55~+125°C
D : -40~+150°C
X : Custom

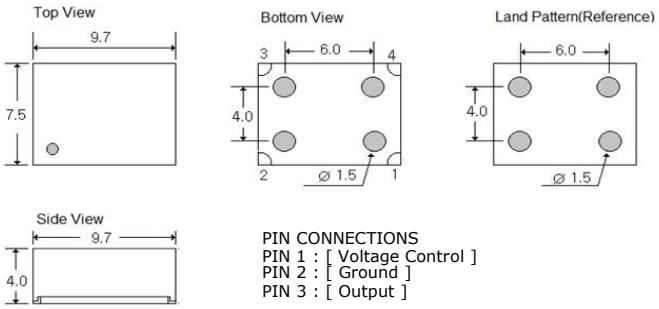
Frequency

In MHz

Stability

5 : ±5.0PPB
10 : ±10.0PPB
20 : ±20.0PPB
50 : ±50.0PPB
:
:
:

● DIMENSIONS (UNIT : mm)



PIN CONNECTIONS
PIN 1 : [Voltage Control]
PIN 2 : [Ground]
PIN 3 : [Output]