

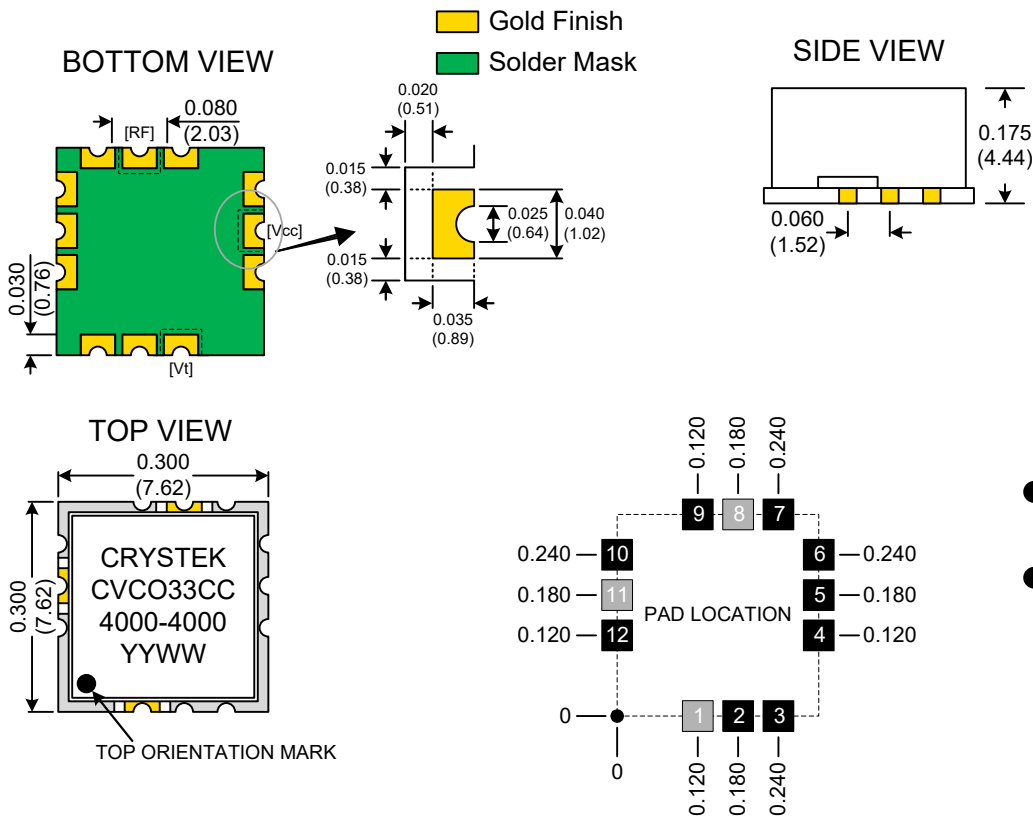


**CRYSTEK**  
**MICROWAVE**  
 A DIVISION OF CRYSTEK CORPORATION

# Voltage Controlled Oscillator-VCO

## CVCO33CC-4000-4000

PERFORMANCE SPECIFICATION	MIN	TYP	MAX	UNITS
Lower Frequency:			4000	MHz
Upper Frequency:	4000			MHz
Tuning Voltage:	0	1.65	3.3	VDC
Supply Voltage:	3.135	3.3	3.465	VDC
Output Power:	+3.0			dBm
Supply Current:		20		mA
Harmonic Suppression: (2 <sup>nd</sup> Harmonic)		-20		dBc
Pushing:		1.0		MHz/V
Pulling, all Phases:		5.0		MHz pk-pk
Tuning Sensitivity:		6		MHz/V
Phase Noise @ 10kHz offset:		-100		dBc/Hz
Phase Noise @ 1MHz offset:		-120		dBc/Hz
Load Impedance:		50		Ω
Input Capacitance:			22	pF
Operating Temperature Range:	-20		+70	°C
Storage Temperature Range:	-45		+90	°C



Pad	Connection
1	V <sub>t</sub>
8	RF-OUTPUT
11	V <sub>cc</sub>
Others	GROUND

- Unless otherwise specified, Dimensions are in:  $\frac{\text{IN}}{(\text{mm})}$
- Pad Location Dimensions are in: Inches



Product Control:			
Crystek Part Number:	CVCO33CC-4000-4000	Release Date:	28-Mar-2018
Revision Level:	B	Responsible:	C. Vales