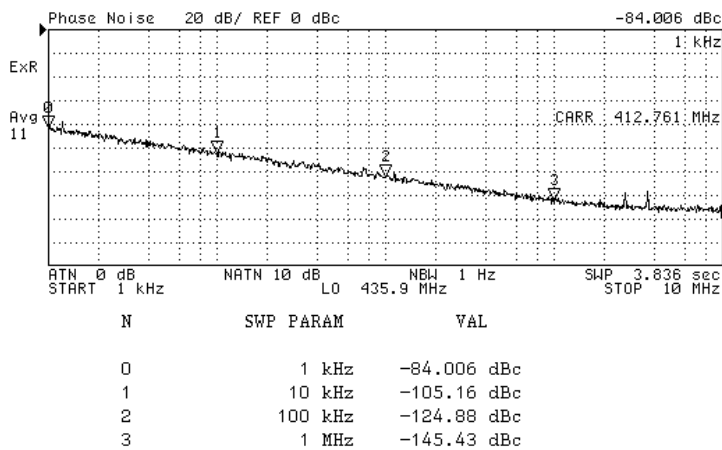


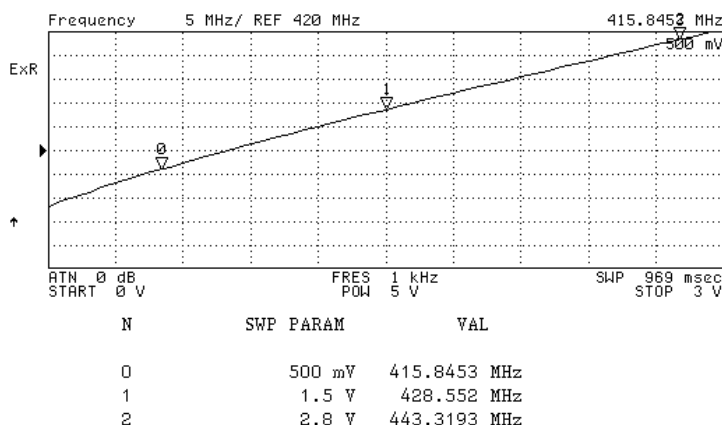


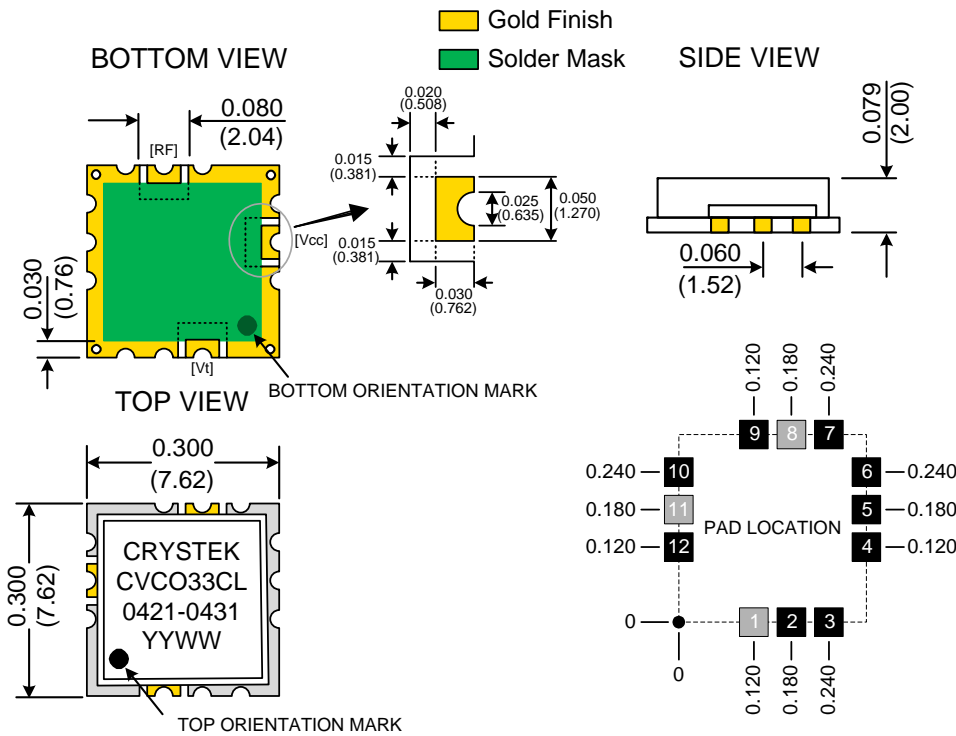
PERFORMANCE SPECIFICATION	MIN	TYP	MAX	UNITS
Lower Frequency:			421	MHz
Upper Frequency:	431			MHz
Tuning Voltage:	0.5		2.8	VDC
Supply Voltage:	4.75	5.0	5.25	VDC
Output Power:	+1.0	+3.0	+5.0	dBm
Supply Current:		15	30	mA
Harmonic Suppression (2 <sup>nd</sup> Harmonic):		-15	-9	dBc
Pushing:			1.0	MHz/V
Pulling, all Phases:			2.0	MHz pk-pk
Tuning Sensitivity:		10		MHz/V
Phase Noise @ 10kHz offset:		-104		dBc/Hz
Phase Noise @ 100kHz offset:		-123		dBc/Hz
Load Impedance:		50		$\Omega$
Input Capacitance:			100	pF
Operating Temperature Range:	-40		+85	$^{\circ}\text{C}$
Storage Temperature Range:	-45		+90	$^{\circ}\text{C}$

Phase Noise  
(1 Hz BW, Typical)



Tuning Curve  
(Typical)

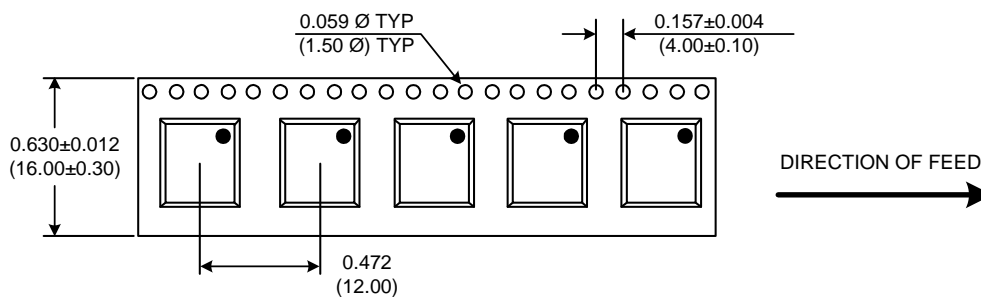




Pad	Connection
1	Vt
8	RF-OUTPUT
11	Vcc
Others	GROUND

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

**TAPE AND REEL**



Drawing not to scale

**Product Control:**

Crystek Part Number:	CVCO33CL-0421-0431	Release Date:	18-Feb-08
Revision Level:	B	Responsible:	C. Vales

Specification is subject to change without notice