



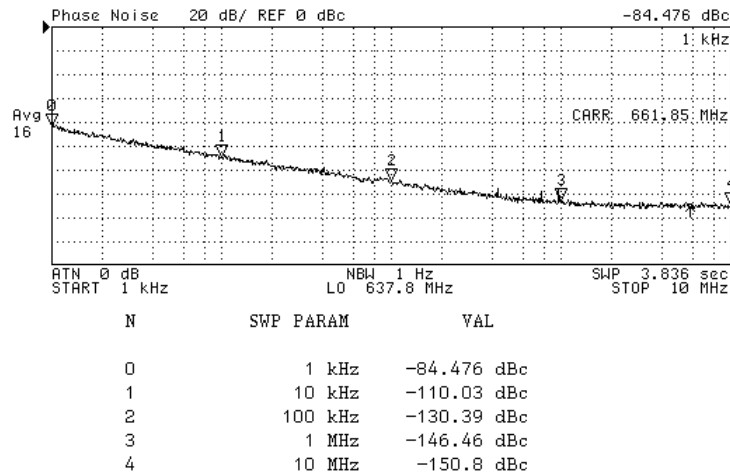
# Voltage Controlled Oscillator-VCO

## CVCO55BE-0633-0653

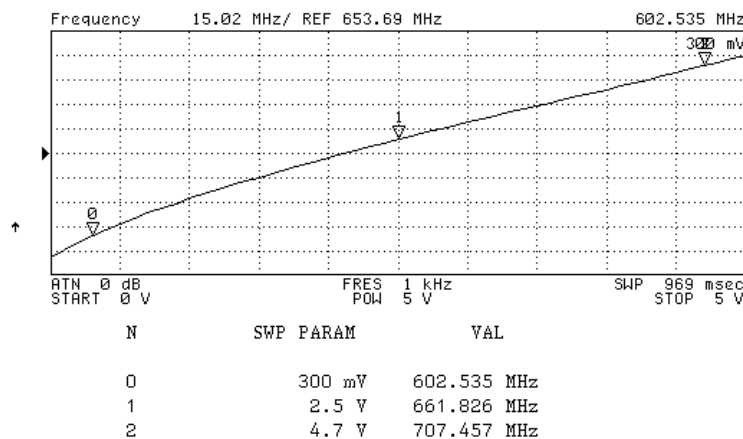


PERFORMANCE SPECIFICATION	MIN	TYP	MAX	UNITS
Lower Frequency:			633	MHz
Upper Frequency:	653			MHz
Tuning Voltage:	0.3		4.7	VDC
Supply Voltage:	4.75	5.0	5.25	VDC
Output Power:	-3.0	0.0	+3.0	dBm
Supply Current:		10	15	mA
Harmonic Suppression (2 <sup>nd</sup> Harmonic):		-15	-10	dBc
Pushing:		0.5	1.0	MHz/V
Pulling, all Phases:		0.5	1.0	MHz pk-pk
Tuning Sensitivity:		25		MHz/V
Phase Noise @ 10kHz offset:		-110	-106	dBc/Hz
Phase Noise @ 100kHz offset:		-130	-126	dBc/Hz
Load Impedance:		50		$\Omega$
Input Capacitance:			120	pF
Operating Temperature Range:	-40		+85	$^{\circ}\text{C}$
Storage Temperature Range:	-45		+90	$^{\circ}\text{C}$

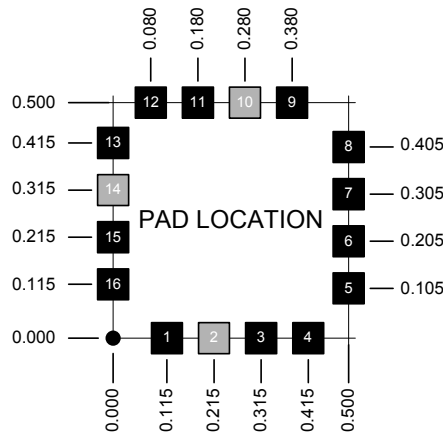
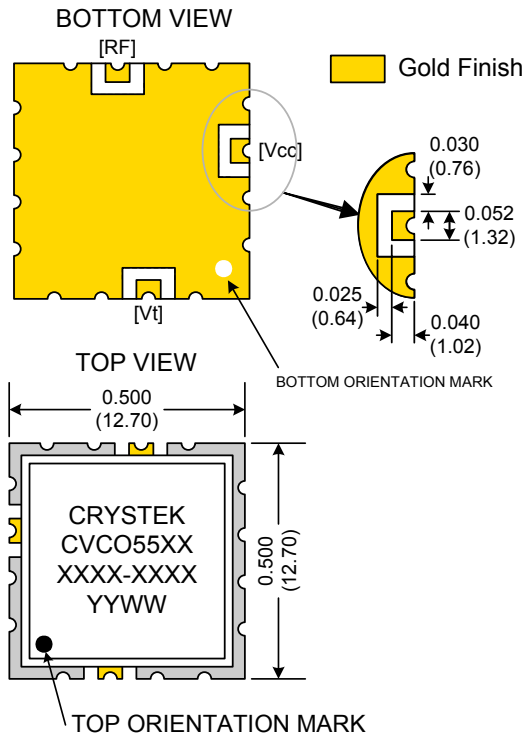
### Phase Noise (1 Hz BW, Typical)



### Tuning Curve, Typical

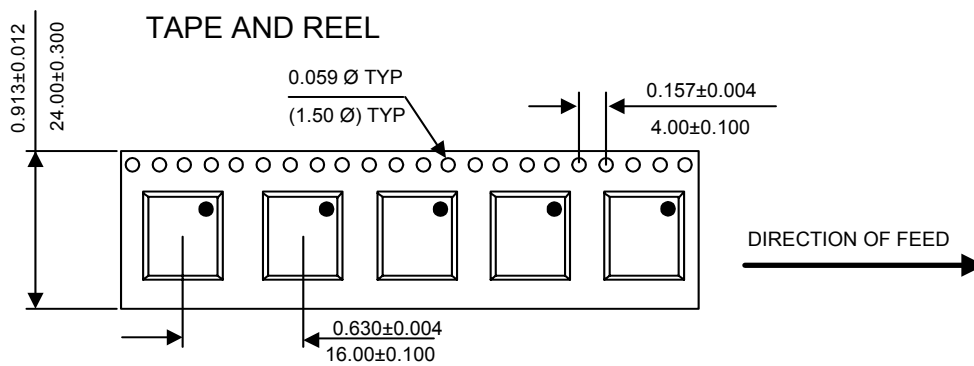


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Pad	Connection
2	Vt
10	RF-OUTPUT
14	Vcc
Others	GROUND

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



Drawing not to scale

**Product Control:**

Crystek Part Number:	CVCO55BE-0633-0653	Release Date:	31-Oct-07
Revision Level:	A	Responsible:	C. Vales

Specification is subject to change without notice