

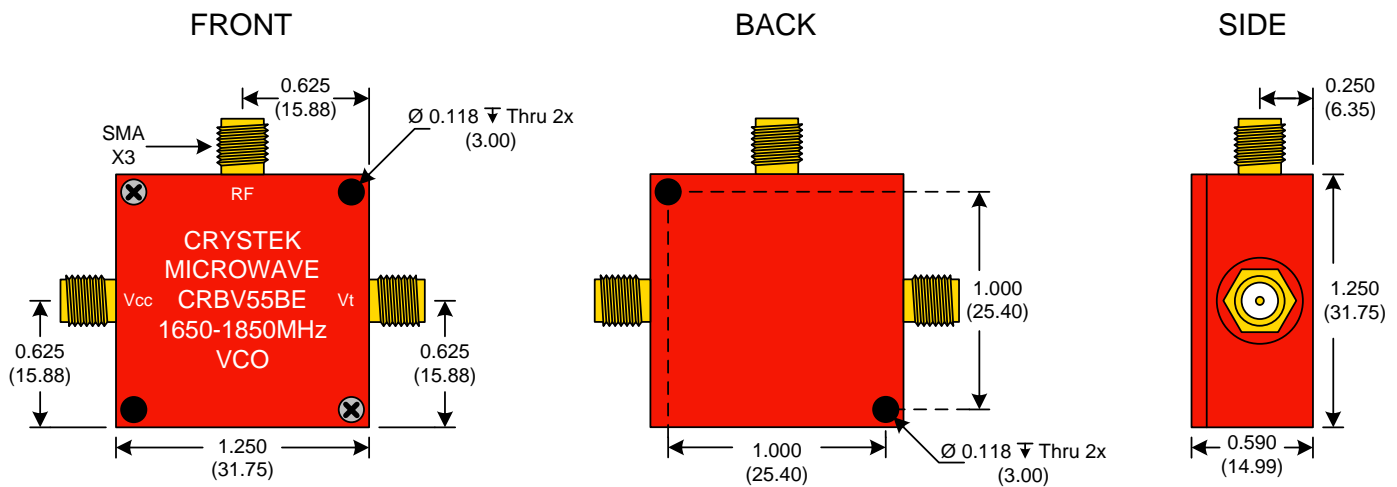


**CRYSTEK**  
**MICROWAVE**  
 A DIVISION OF CRYSTEK CORPORATION

**RedBox** VCO  
 CRBV55BE-1650-1850



PERFORMANCE SPECIFICATION	MIN	TYP	MAX	UNITS
Lower Frequency:			1650	MHz
Upper Frequency:	1850			MHz
Tuning Voltage:	0.5		10.0	VDC
Supply Voltage:	4.75	5.0	5.25	VDC
Output Power:	+1.0	+3.0	+5.0	dBm
Supply Current:			25	mA
Harmonic Suppression (2 <sup>nd</sup> Harmonic)		-12		dBc
Pushing:			3.0	MHz/V
Pulling, all Phases:			6.0	MHz pk-pk
Tuning Sensitivity:		25		MHz/V
Phase Noise @ 10kHz offset:		-105		dBc/Hz
Phase Noise @ 100kHz offset:		-126		dBc/Hz
Load Impedance:		50		$\Omega$
Input Capacitance:			22	pF
Operating Temperature Range:	-40		+85	$^{\circ}\text{C}$
Storage Temperature Range:	-45		+90	$^{\circ}\text{C}$



● Unless otherwise specified, Dimensions are in:  $\frac{\text{IN}}{\text{mm}}$

**Product Control:**

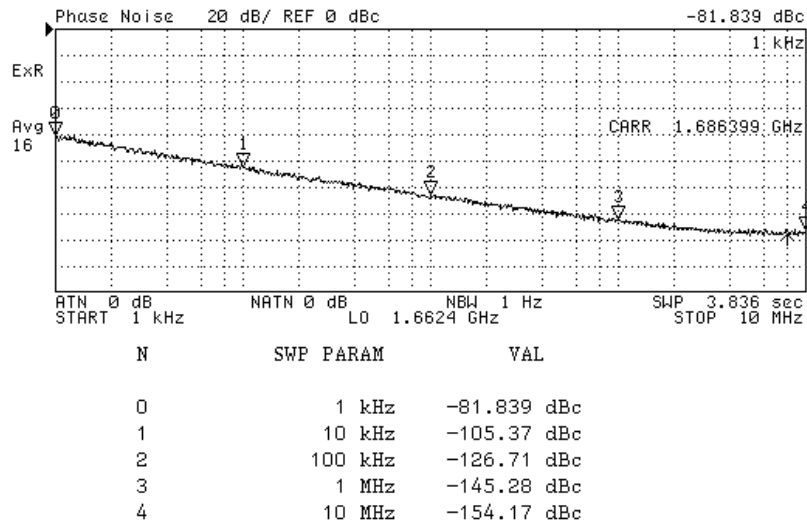
Crystek Part Number:	CRBV55BE-1650-1850	Release Date:	17-Dec-07
Revision Level:	A	Responsible:	C. Vales



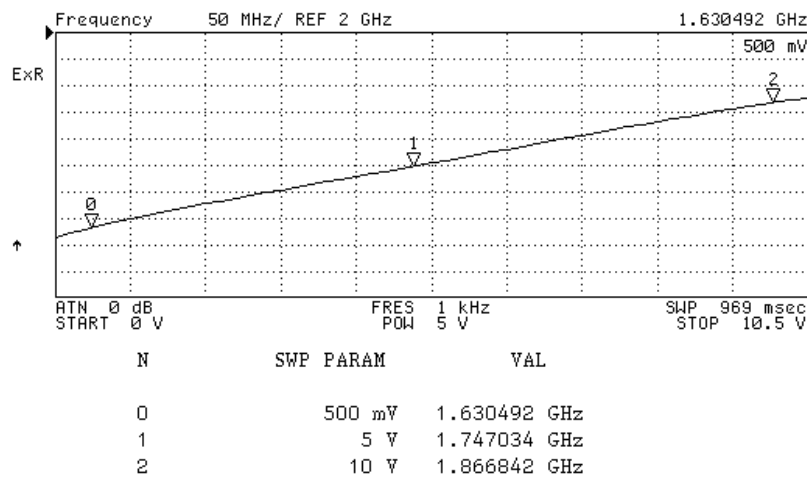
**CRYSTEK**  
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Phase Noise (1 Hz BW, Typical)



Tuning Curve (Typical)



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Specification is subject to change without notice