

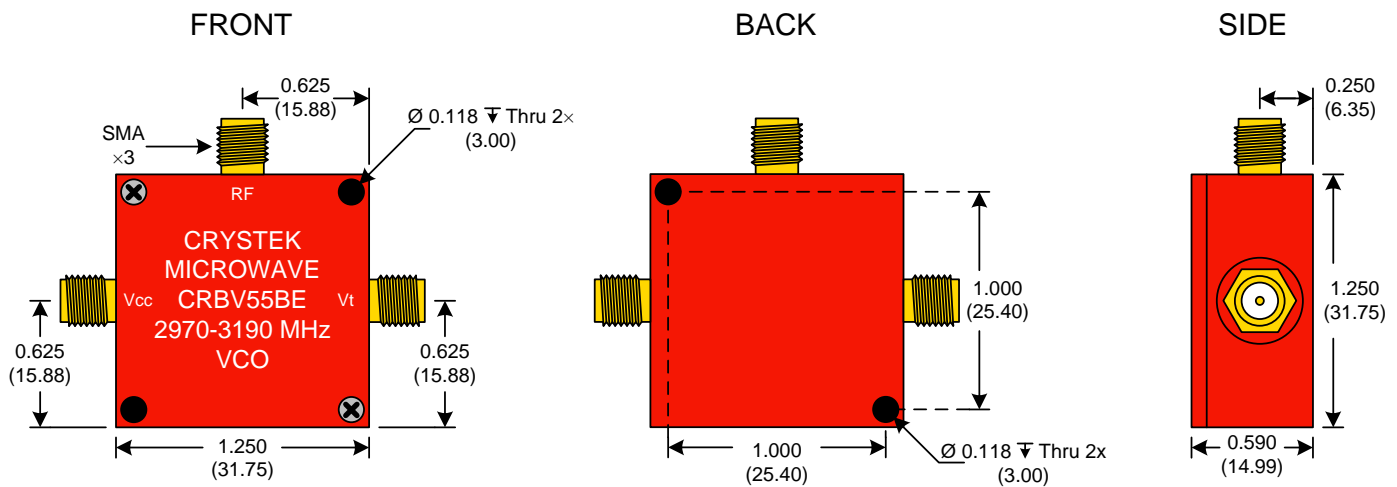


**CRYSTEK**  
**MICROWAVE**  
 A DIVISION OF CRYSTEK CORPORATION

**RedBox VCO**  
**CRBV55BE-2970-3190**



PERFORMANCE SPECIFICATION	MIN	TYP	MAX	UNITS
Lower Frequency:			2970	MHz
Upper Frequency:	3190			MHz
Tuning Voltage:	0.3		4.7	VDC
Supply Voltage:	4.75	5.00	5.25	VDC
Output Power:	0	+2.0	+4.0	dBm
Supply Current:			40	mA
Harmonic Suppression (2 <sup>nd</sup> Harmonic):		-20	-15	dBc
Pushing:		5	10	MHz/V
Pulling, all Phases:		6	12	MHz pk-pk
Tuning Sensitivity:		107		MHz/V
Phase Noise @ 10kHz offset:		-96	-93	dBc/Hz
Phase Noise @ 100kHz offset:		-117	-114	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:**

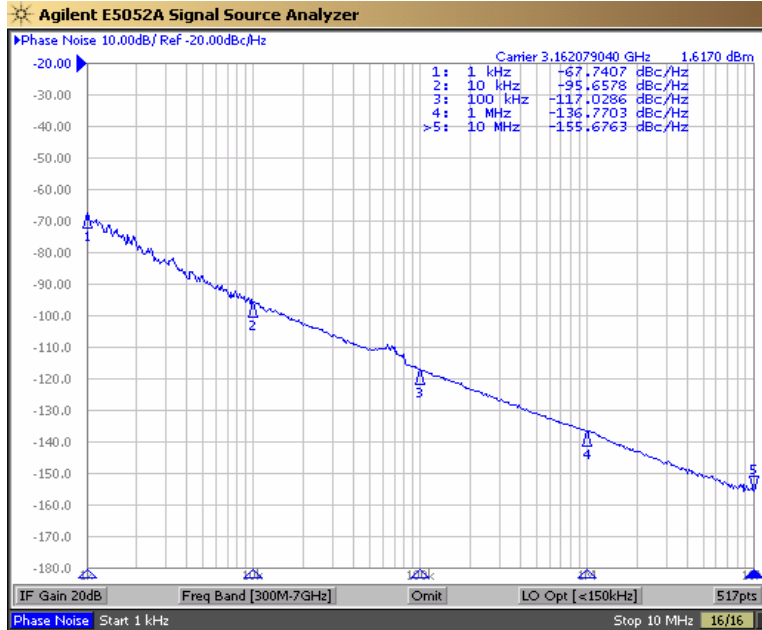
Crystek Part Number:	CRBV55BE-2970-3190	Release Date:	02-Oct-08
Revision Level:	A	Responsible:	C. Vales



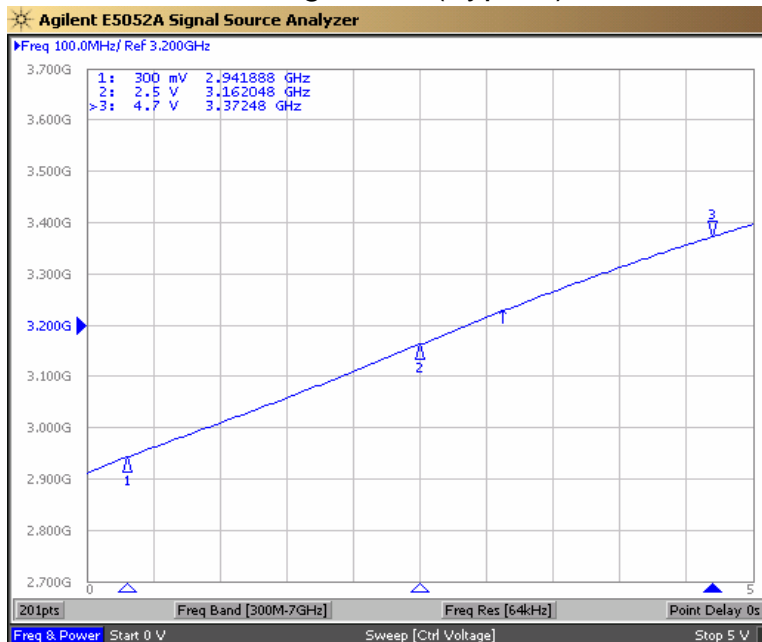
**CRYSTEK**  
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Phase Noise (1 Hz BW, Typical)



Tuning Curve (Typical)



**Product Control:**

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Specification is subject to change without notice