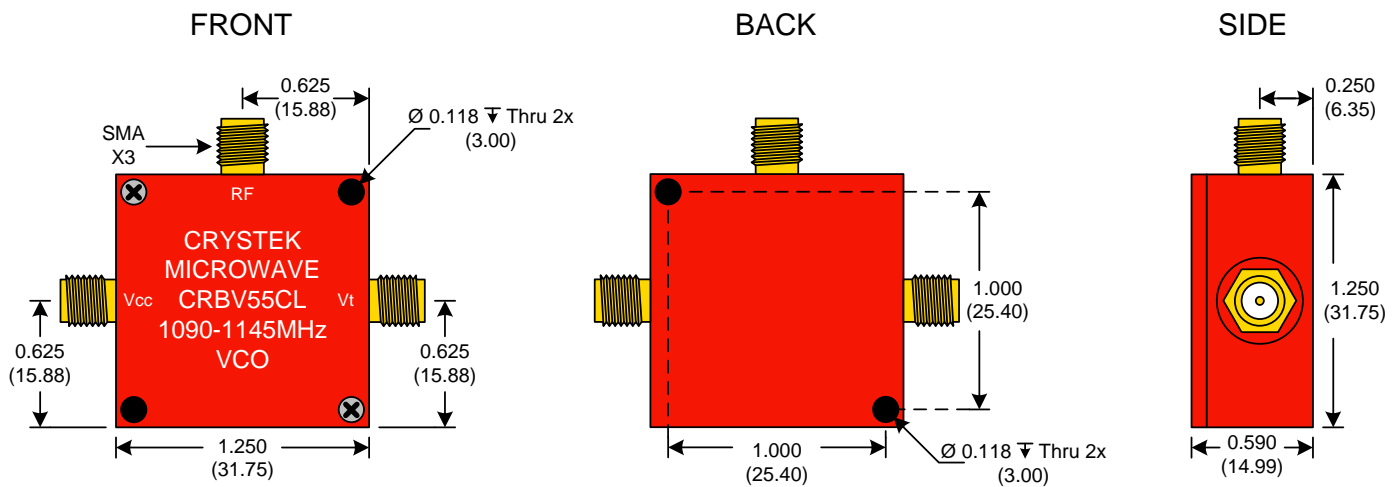


**CRYSTEK**  
**MICROWAVE**  
 A DIVISION OF CRYSTEK CORPORATION

**RedBox** VCO  
 CRBV55CL-1090-1145



PERFORMANCE SPECIFICATION	MIN	TYP	MAX	UNITS
Lower Frequency:			1090	MHz
Upper Frequency:	1145			MHz
Tuning Voltage:	0.3		4.7	VDC
Supply Voltage:	4.75	5.0	5.25	VDC
Output Power:	-3.0	0	+3.0	dBm
Supply Current:		25	35	mA
Harmonic Suppression (2 <sup>nd</sup> Harmonic)		-15		dBc
Pushing:		0.5	1.0	MHz/V
Pulling, all Phases:		1.0	1.5	MHz pk-pk
Tuning Sensitivity:		21		MHz/V
Phase Noise @ 10kHz offset:		-110		dBc/Hz
Phase Noise @ 100kHz offset:		-130		dBc/Hz
Load Impedance:		50		$\Omega$
Input Capacitance:			30	pF
Operating Temperature Range:	-40		+85	$^{\circ}\text{C}$
Storage Temperature Range:	-45		+90	$^{\circ}\text{C}$



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

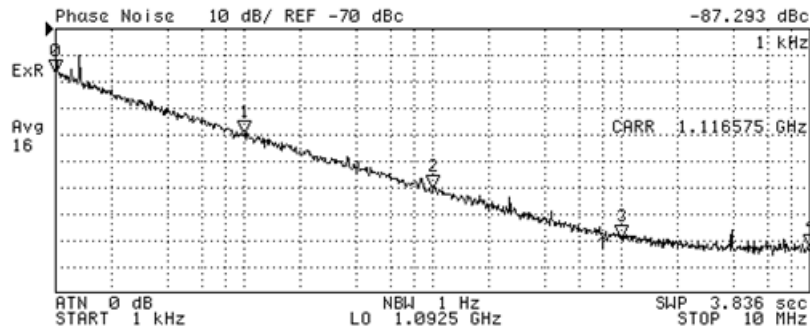
**Product Control:**

Crystek Part Number:	CRBV55CL-1090-1145	Release Date:	12-Dec-07
Revision Level:	B	Responsible:	C. Vales



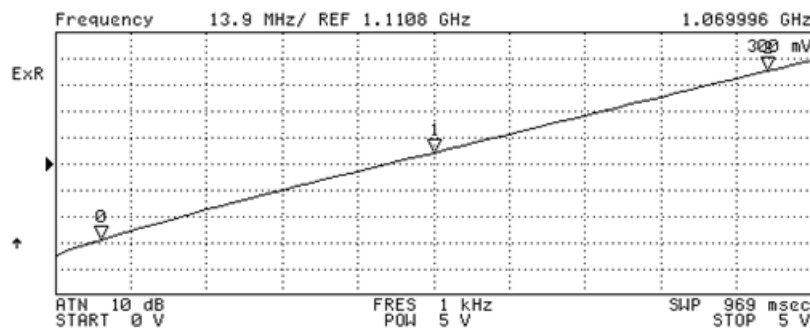


Phase Noise (1 Hz BW, Typical)



N	SWP PARAM	VAL
0	1 kHz	-87.293 dBc
1	10 kHz	-110.24 dBc
2	100 kHz	-130.88 dBc
3	1 MHz	-149.83 dBc
4	10 MHz	-153.15 dBc

Tuning Curve (Typical)



N	SWP PARAM	VAL
0	300 mV	1.069996 GHz
1	2.5 V	1.116533 GHz
2	4.7 V	1.159787 GHz

**Product Control:**

Crystek Part Number:	CRBV55CL-1090-1145	Release Date:	12-Dec-07
Revision Level:	B	Responsible:	C. Vales

Specification is subject to change without notice

