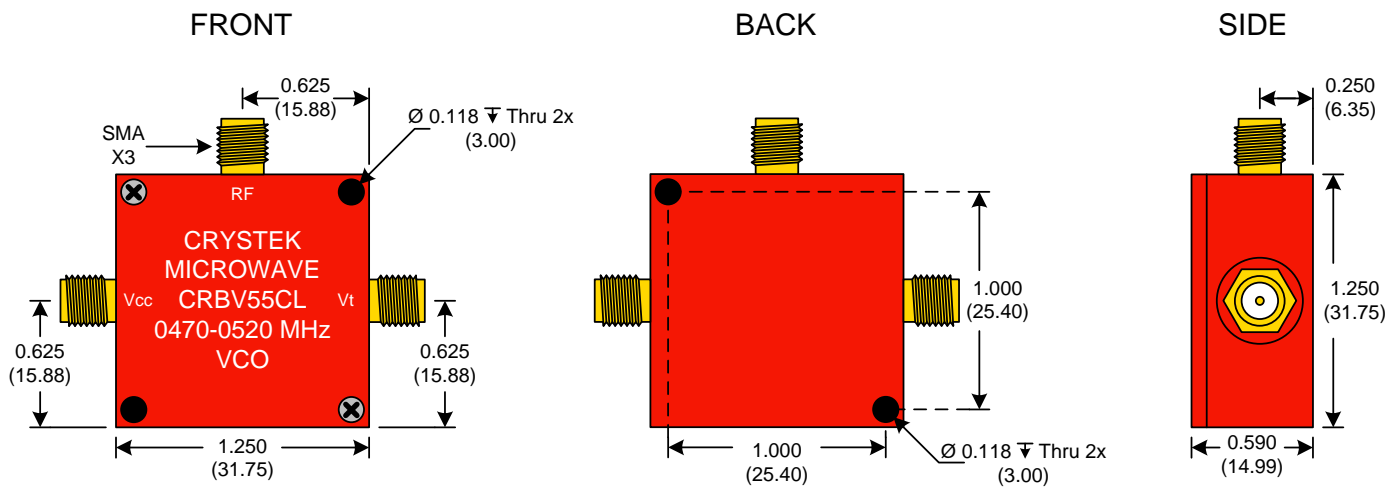


**CRYSTEK**  
**MICROWAVE**  
 A DIVISION OF CRYSTEK CORPORATION

**RedBox** VCO  
 CRBV55CL-0470-0520



PERFORMANCE SPECIFICATION	MIN	TYP	MAX	UNITS
Lower Frequency:			470	MHz
Upper Frequency:	520			MHz
Tuning Voltage:	0.3		4.7	VDC
Supply Voltage:	1.9	2.0	2.1	VDC
Output Power:	-1.0	+1.0	+3.0	dBm
Supply Current:			10	mA
Harmonic Suppression (2 <sup>nd</sup> Harmonic)		-7		dBc
Pushing:			7.0	MHz/V
Pulling, all Phases:			1.0	MHz pk-pk
Tuning Sensitivity:		24		MHz/V
Phase Noise @ 10kHz offset:		-109		dBc/Hz
Phase Noise @ 100kHz offset:		-129		dBc/Hz
Load Impedance:		50		$\Omega$
Input Capacitance:			150	pF
Operating Temperature Range:	-30		+80	$^{\circ}\text{C}$
Storage Temperature Range:	-45		+90	$^{\circ}\text{C}$



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

**Product Control:**

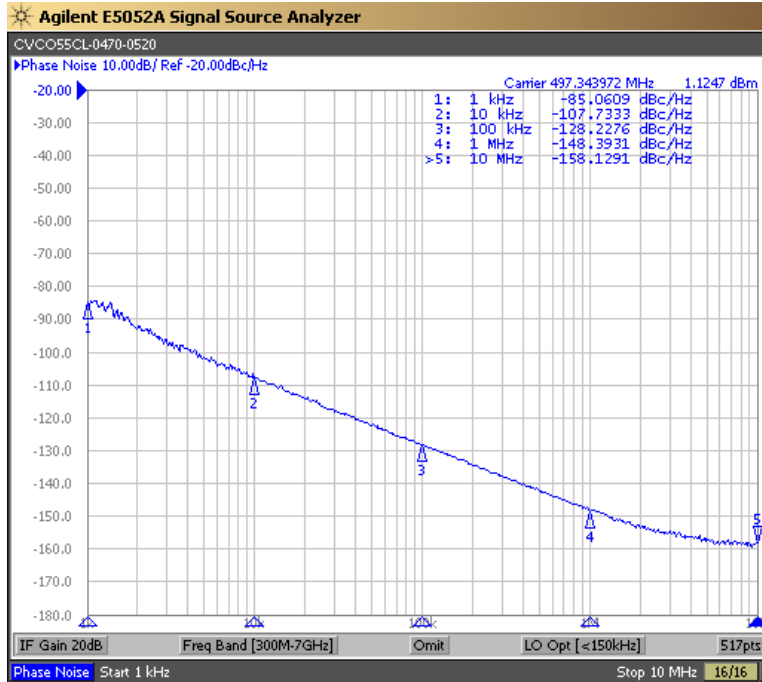
Crystek Part Number:	CRBV55CL-0470-0520	Release Date:	23-Mar-10
Revision Level:	C	Responsible:	C. Vales



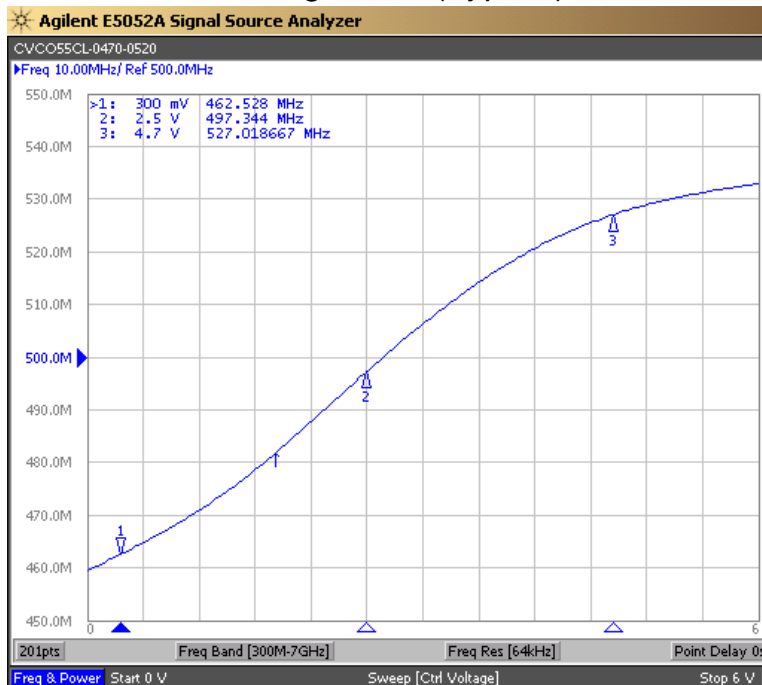
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 PHONE: 239-561-3311 • 800-237-3061  
 FAX: 239-561-1025 • WWW.CRYSTEK.COM



Phase Noise (1 Hz BW, Typical)



Tuning Curve (Typical)



**Product Control:**

Crystek Part Number:	CRBV55CL-0470-0520	Release Date:	23-Mar-10
Revision Level:	C	Responsible:	C. Vales

Specification is subject to change without notice