

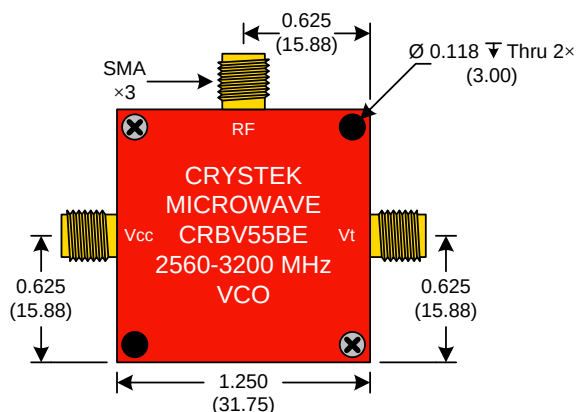
**CRYSTEK**  
**MICROWAVE**  
A DIVISION OF CRYSTEK CORPORATION

**RedBox** VCO  
CRBV55BE-2560-3200

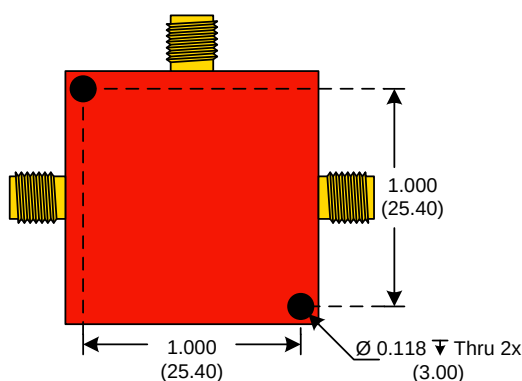


| PERFORMANCE SPECIFICATION                        | MIN  | TYP  | MAX   | UNITS              |
|--------------------------------------------------|------|------|-------|--------------------|
| Lower Frequency:                                 |      |      | 2560  | MHz                |
| Upper Frequency:                                 | 3200 |      |       | MHz                |
| Tuning Voltage:                                  | 0.5  |      | 18.0  | VDC                |
| Supply Voltage:                                  | 9.5  | 10.0 | 10.5  | VDC                |
| Output Power:                                    | 0    | +5.0 | +10.0 | dBm                |
| Supply Current:                                  |      |      | 25    | mA                 |
| Harmonic Suppression (2 <sup>nd</sup> Harmonic): |      | -25  | -20   | dBc                |
| Pushing:                                         |      |      | 5.0   | MHz/V              |
| Pulling, all Phases:                             |      |      | 20.0  | MHz pk-pk          |
| Tuning Sensitivity:                              |      | 110  |       | MHz/V              |
| Phase Noise @ 10kHz offset:                      |      | -90  | -86   | dBc/Hz             |
| Phase Noise @ 100kHz offset:                     |      | -110 | -106  | dBc/Hz             |
| Load Impedance:                                  |      | 50   |       | $\Omega$           |
| Input Capacitance:                               |      |      | 50    | pF                 |
| Operating Temperature Range:                     | -40  |      | +85   | $^{\circ}\text{C}$ |
| Storage Temperature Range:                       | -45  |      | +90   | $^{\circ}\text{C}$ |

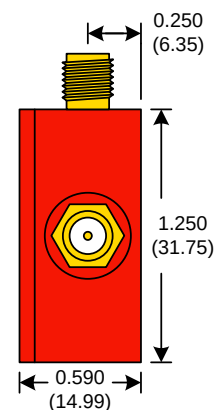
FRONT



BACK



SIDE



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

**Product Control:**

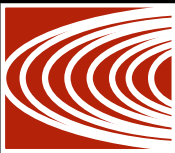
|                      |                    |               |           |
|----------------------|--------------------|---------------|-----------|
| Crystek Part Number: | CRBV55BE-2560-3200 | Release Date: | 02-Oct-08 |
| Revision Level:      | A                  | Responsible:  | C. Vales  |

Page 1 of 2



**CRYSTEK**  
CORPORATION

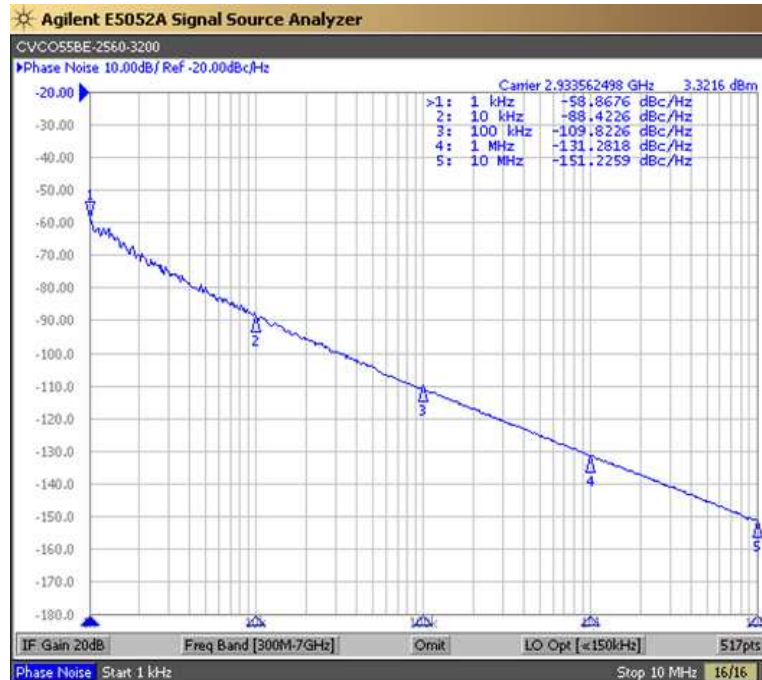
12730 COMMONWEALTH DRIVE • FORT MYERS, FLORIDA 33913  
PHONE: 239-561-3311 • 800-237-3061  
FAX: 239-561-1025 • WWW.CRYSTEK.COM



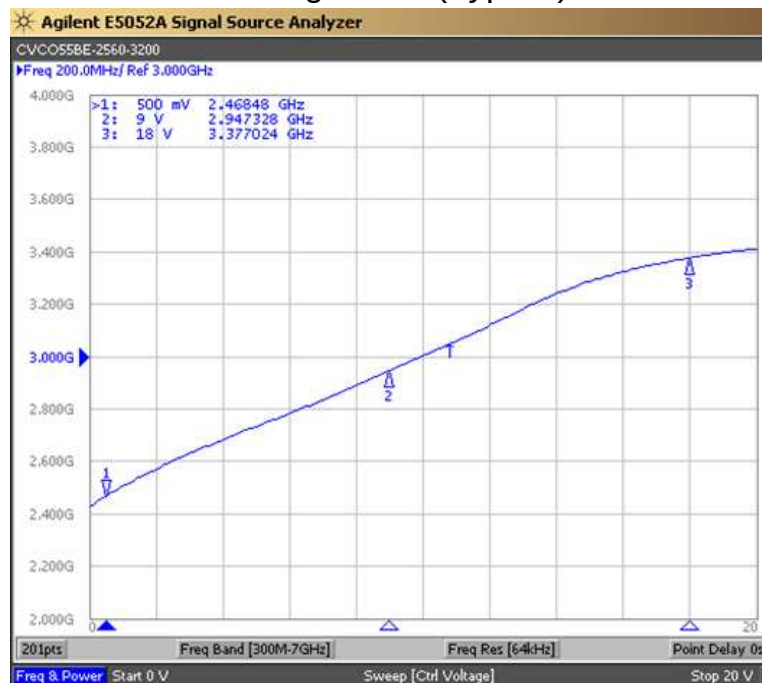
**CRYSTEK**  
**MICROWAVE**  
A DIVISION OF CRYSTEK CORPORATION

**RedBox** VCO  
CRBV55BE-2560-3200

Phase Noise (1 Hz BW, Typical)



Tuning Curve (Typical)



**Product Control:**

|                      |                    |               |           |
|----------------------|--------------------|---------------|-----------|
| Crystek Part Number: | CRBV55BE-2560-3200 | Release Date: | 02-Oct-08 |
| Revision Level:      | A                  | Responsible:  | C. Vales  |

Specification is subject to change without notice

Page 2 of 2



**CRYSTEK**  
CORPORATION

12730 COMMONWEALTH DRIVE • FORT MYERS, FLORIDA 33913  
PHONE: 239-561-3311 • 800-237-3061  
FAX: 239-561-1025 • WWW.CRYSTEK.COM