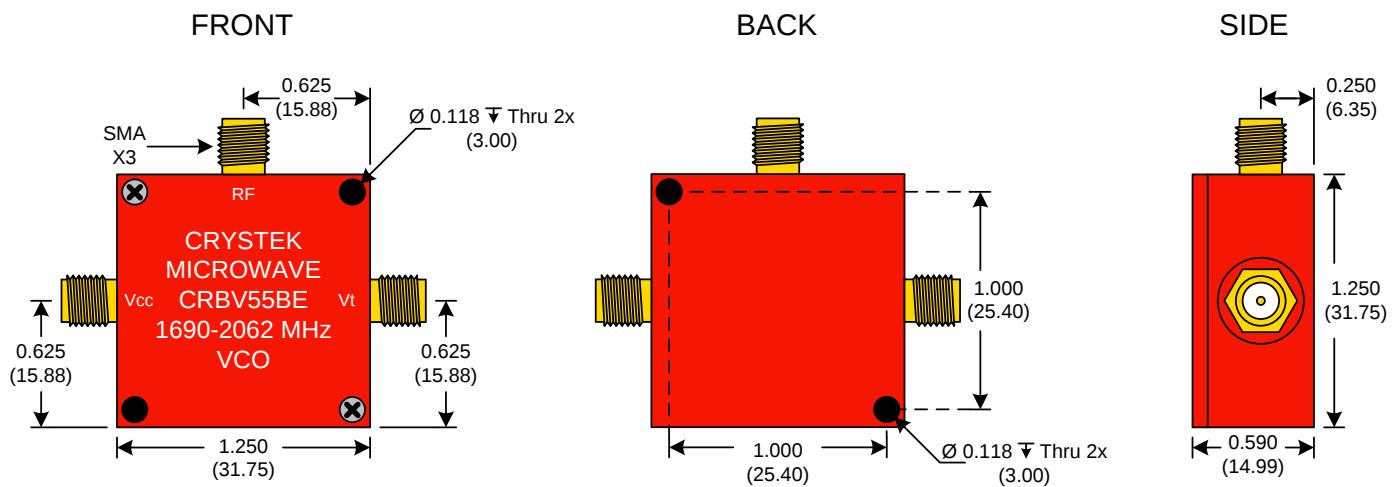


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**RedBox VCO**  
**CRBV55BE-1690-2062**



| PERFORMANCE SPECIFICATION                       | MIN  | TYP  | MAX  | UNITS              |
|-------------------------------------------------|------|------|------|--------------------|
| Lower Frequency:                                |      |      | 1690 | MHz                |
| Upper Frequency:                                | 2062 |      |      | MHz                |
| Tuning Voltage:                                 | 0    |      | 5.0  | VDC                |
| Supply Voltage:                                 | 4.75 | 5.0  | 5.25 | VDC                |
| Output Power:                                   | +3.0 | +5.0 | +7.0 | dBm                |
| Supply Current:                                 |      |      | 20   | mA                 |
| Harmonic Suppression (2 <sup>nd</sup> Harmonic) |      | -22  | -13  | dBc                |
| Pushing:                                        |      | 6.0  | 10.0 | MHz/V              |
| Pulling, all Phases:                            |      | 8.0  | 13.0 | MHz pk-pk          |
| Tuning Sensitivity:                             |      | 145  |      | MHz/V              |
| Phase Noise @ 10kHz offset:                     |      | -96  | -90  | dBc/Hz             |
| Phase Noise @ 100kHz offset:                    |      | -120 | -114 | dBc/Hz             |
| Load Impedance:                                 |      | 50   |      | $\Omega$           |
| Input Capacitance:                              |      |      | 15   | pF                 |
| Operating Temperature Range:                    | 0    |      | +70  | $^{\circ}\text{C}$ |
| 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-1690-2062 | Release Date: | 07-Jan-09 |
| Revision Level:      | C                  | Responsible:  | C. Vales  |

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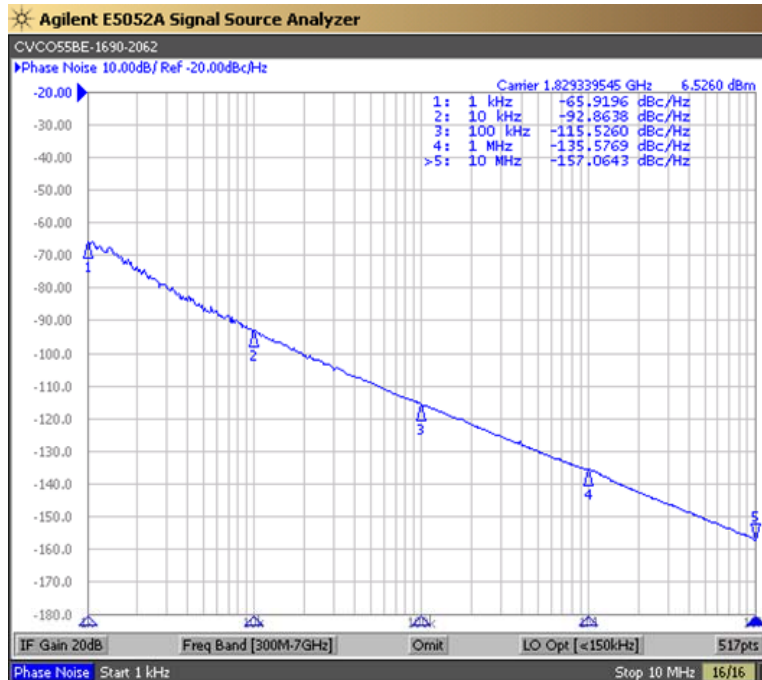
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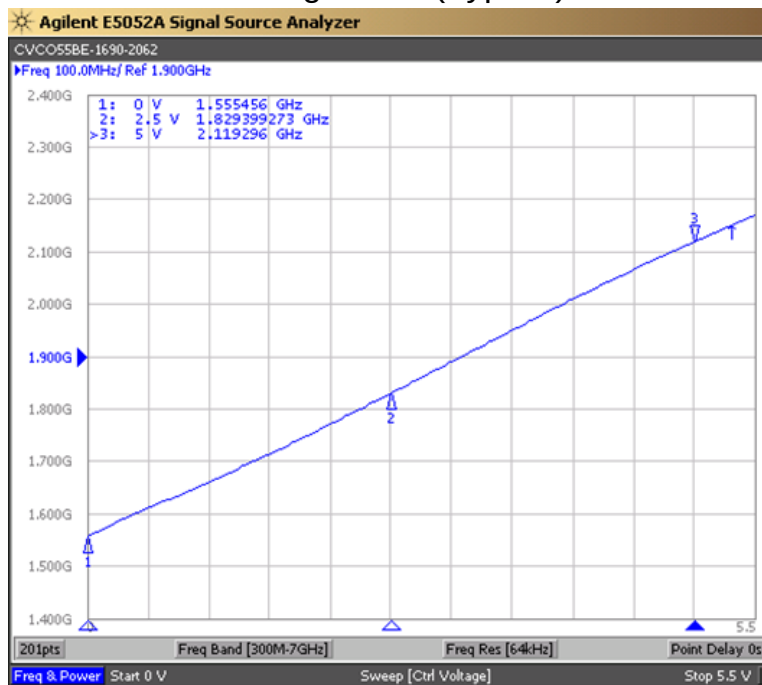
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**RedBox** VCO  
CRBV55BE-1690-2062

Phase Noise (1 Hz BW, Typical)



Tuning Curve (Typical)



**Product Control:**

|                      |                    |               |           |
|----------------------|--------------------|---------------|-----------|
| Crystek Part Number: | CRBV55BE-1690-2062 | Release Date: | 07-Jan-09 |
| Revision Level:      | C                  | Responsible:  | C. Vales  |

Specification is subject to change without notice

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