



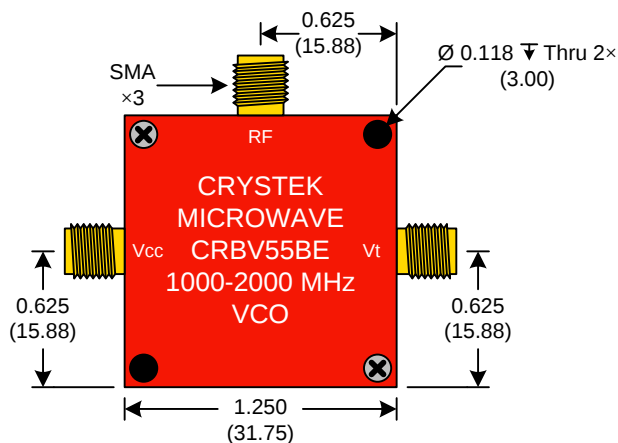
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**MICROWAVE**  
A DIVISION OF CRYSTEK CORPORATION

**RedBox** VCO  
CRBV55BE-1000-2000

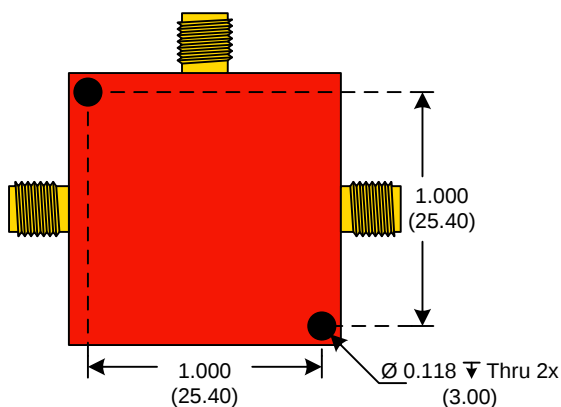


| PERFORMANCE SPECIFICATION                       | MIN  | TYP  | MAX   | UNITS     |
|-------------------------------------------------|------|------|-------|-----------|
| Lower Frequency:                                |      |      | 1000  | MHz       |
| Upper Frequency:                                | 2000 |      |       | MHz       |
| Tuning Voltage:                                 | 1.0  |      | 20.0  | VDC       |
| Supply Voltage:                                 | 9.75 | 10.0 | 10.25 | VDC       |
| Output Power:                                   | +6.0 | +9.0 | +12.0 | dBm       |
| Supply Current:                                 |      | 15   | 25    | mA        |
| Harmonic Suppression (2 <sup>nd</sup> Harmonic) |      | -10  | -5    | dBc       |
| Pushing:                                        |      | 2.5  | 5.0   | MHz/V     |
| Pulling, all Phases:                            |      | 7.5  | 15.0  | MHz pk-pk |
| Tuning Sensitivity:                             |      | 53   |       | MHz/V     |
| Phase Noise @ 10kHz offset:                     |      | -95  |       | dBc/Hz    |
| Phase Noise @ 100kHz offset:                    |      | -115 |       | dBc/Hz    |
| Load Impedance:                                 |      | 50   |       | $\Omega$  |
| Input Capacitance:                              |      |      | 33    | pF        |
| Operating Temperature Range:                    | -40  |      | +85   | °C        |
| Storage Temperature Range:                      | -45  |      | +90   | °C        |

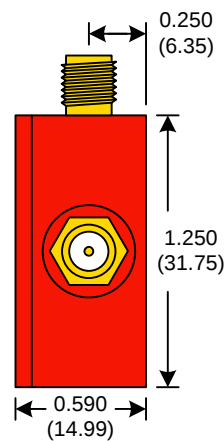
FRONT



BACK



SIDE



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

**Product Control:**

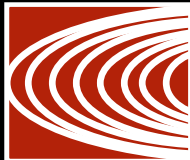
|                      |                    |               |             |
|----------------------|--------------------|---------------|-------------|
| Crystek Part Number: | CRBV55BE-1000-2000 | Release Date: | 29-Feb-2016 |
| Revision Level:      | G                  | Responsible:  | C. Vales    |

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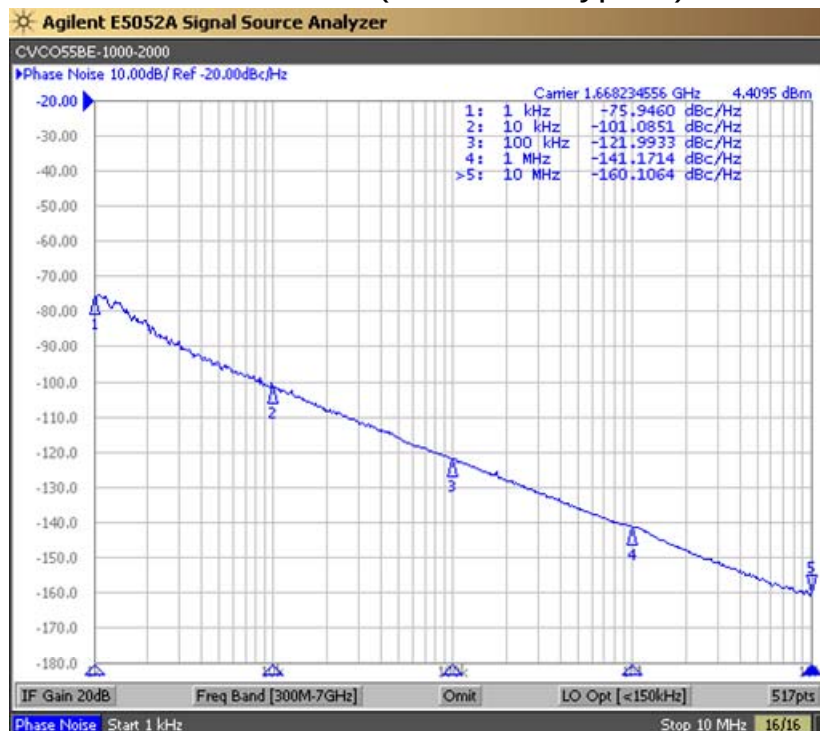
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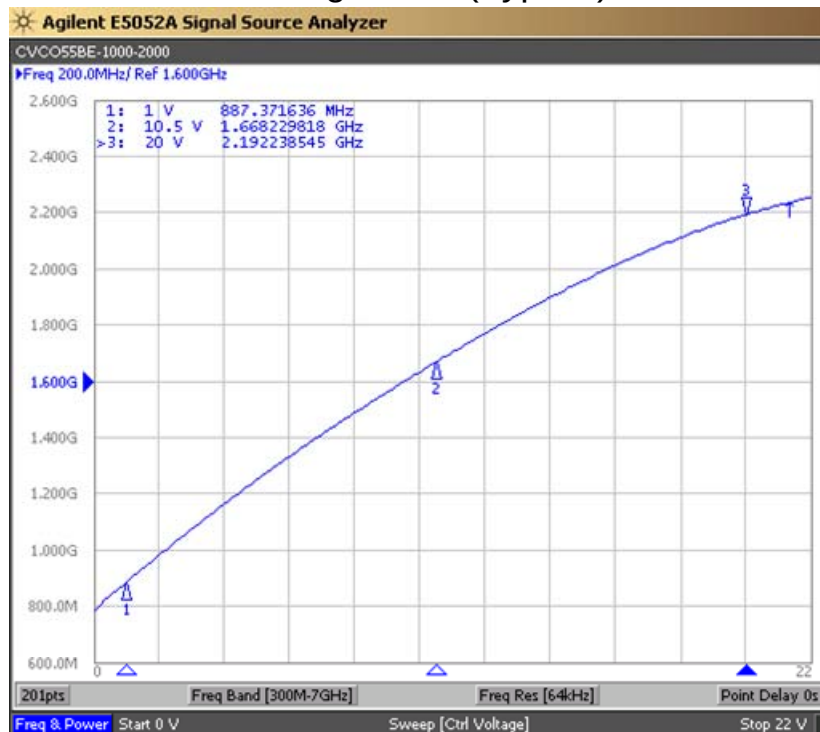
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**RedBox** VCO  
CRBV55BE-1000-2000

Phase Noise (1 Hz BW, Typical)



Tuning Curve (Typical)



**Product Control:**

|                      |                    |               |             |
|----------------------|--------------------|---------------|-------------|
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Specification is subject to change without notice



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