



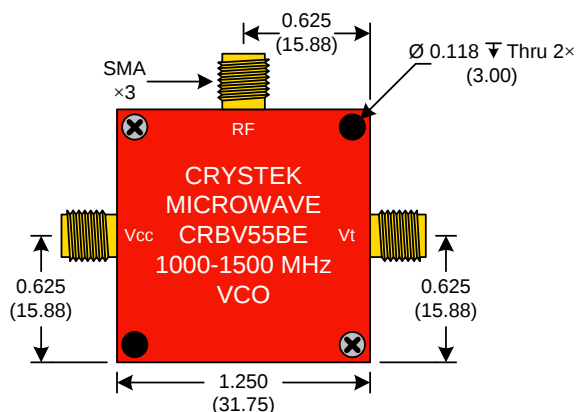
**CRYSTEK**  
**MICROWAVE**  
A DIVISION OF CRYSTEK CORPORATION

**RedBox VCO**  
**CRBV55BE-1000-1500**



| PERFORMANCE SPECIFICATION                       | MIN  | TYP  | MAX  | UNITS              |
|-------------------------------------------------|------|------|------|--------------------|
| Lower Frequency:                                |      |      | 1000 | MHz                |
| Upper Frequency:                                | 1500 |      |      | MHz                |
| Tuning Voltage:                                 | 0.5  |      | 4.5  | VDC                |
| Supply Voltage:                                 | 2.85 | 3.0  | 3.15 | VDC                |
| Output Power:                                   | 0    | +3.0 | +6.0 | dBm                |
| Supply Current:                                 |      | 10   |      | mA                 |
| Harmonic Suppression (2 <sup>nd</sup> Harmonic) |      | -15  |      | dBc                |
| Pushing:                                        |      | 10.0 |      | MHz/V              |
| Pulling, all Phases:                            |      |      | 4.0  | MHz pk-pk          |
| Tuning Sensitivity:                             |      | 150  |      | MHz/V              |
| Phase Noise @ 10kHz offset:                     |      | -95  |      | dBc/Hz             |
| Phase Noise @ 100kHz offset:                    |      | -115 |      | dBc/Hz             |
| Load Impedance:                                 |      | 50   |      | $\Omega$           |
| Input Capacitance:                              |      |      | 30   | pF                 |
| Operating Temperature Range:                    | -40  |      | +85  | $^{\circ}\text{C}$ |
| Storage Temperature Range:                      | -45  |      | +90  | $^{\circ}\text{C}$ |

FRONT



BACK



SIDE



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

**Product Control:**

|                      |                    |               |             |
|----------------------|--------------------|---------------|-------------|
| Crystek Part Number: | CRBV55BE-1000-1500 | Release Date: | 11-Jul-2013 |
| Revision Level:      | E                  | Responsible:  | C. Vales    |

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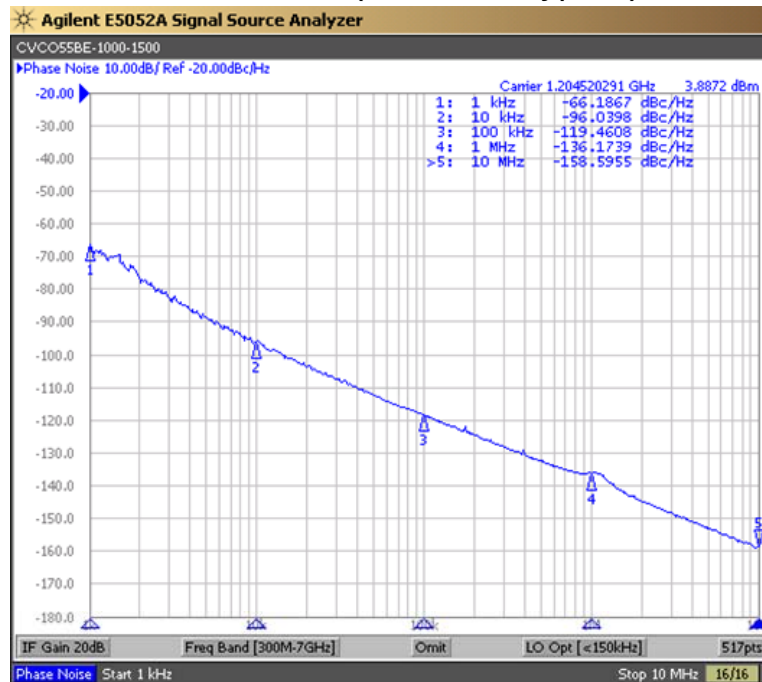
12730 COMMONWEALTH DRIVE • FORT MYERS, FLORIDA 33913  
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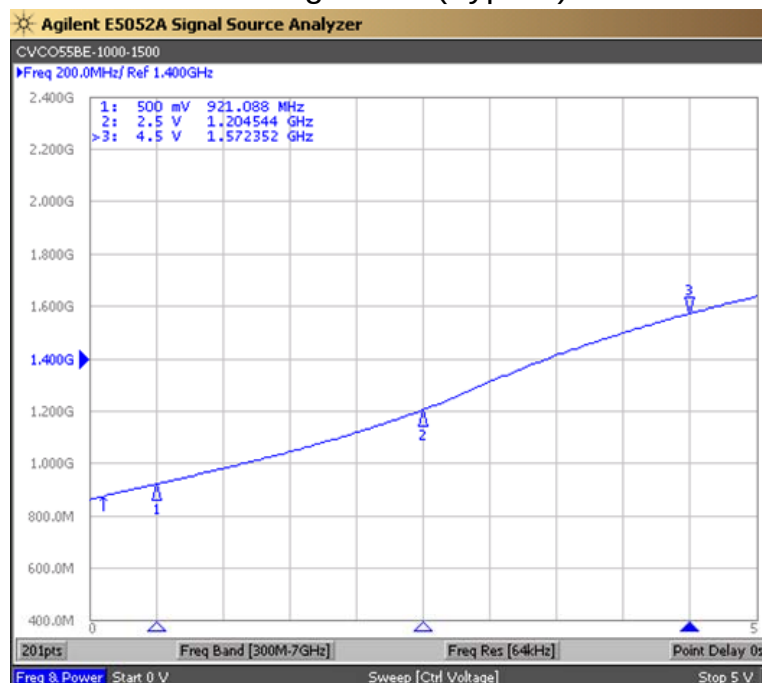
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**RedBox** VCO  
CRBV55BE-1000-1500

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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