



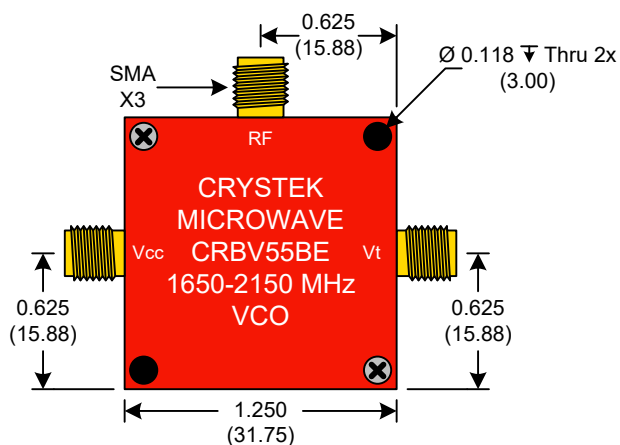
**CRYSTEK**  
**MICROWAVE**  
A DIVISION OF CRYSTEK CORPORATION

**RedBox** VCO  
CRBV55BE-1650-2150

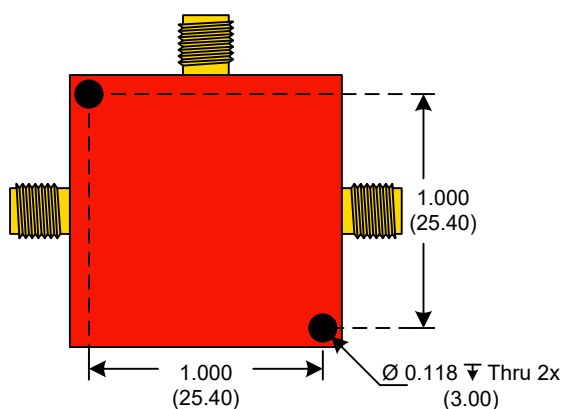


| PERFORMANCE SPECIFICATION                       | MIN  | TYP  | MAX  | UNITS     |
|-------------------------------------------------|------|------|------|-----------|
| Lower Frequency:                                |      |      | 1650 | MHz       |
| Upper Frequency:                                | 2150 |      |      | MHz       |
| Tuning Voltage:                                 | 0.5  |      | 4.5  | VDC       |
| Supply Voltage:                                 | 4.75 | 5.0  | 5.25 | VDC       |
| Output Power:                                   | +2.0 | +5.0 | +8.0 | dBm       |
| Supply Current:                                 |      | 15   | 22   | mA        |
| Harmonic Suppression (2 <sup>nd</sup> Harmonic) |      | -15  | -10  | dBc       |
| Pushing:                                        |      | 1.5  | 3.5  | MHz/V     |
| Pulling, all Phases:                            |      | 10   | 20   | MHz pk-pk |
| Tuning Sensitivity:                             |      | 160  |      | MHz/V     |
| Phase Noise @ 10kHz offset:                     |      | -96  | -91  | dBc/Hz    |
| Phase Noise @ 100kHz offset:                    |      | -118 | -113 | dBc/Hz    |
| Load Impedance:                                 |      | 50   |      | $\Omega$  |
| Input Capacitance:                              |      |      | 27   | pF        |
| Operating Temperature Range:                    | -40  |      | +85  | °C        |
| Storage Temperature Range:                      | -45  |      | +90  | °C        |

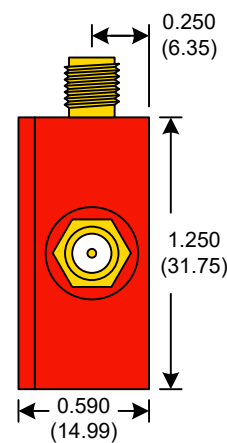
FRONT



BACK



SIDE



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

**Product Control:**

|                      |                    |               |             |
|----------------------|--------------------|---------------|-------------|
| Crystek Part Number: | CRBV55BE-1650-2150 | Release Date: | 30-Jan-2014 |
| Revision Level:      | E                  | Responsible:  | C. Vales    |

Page 1 of 2

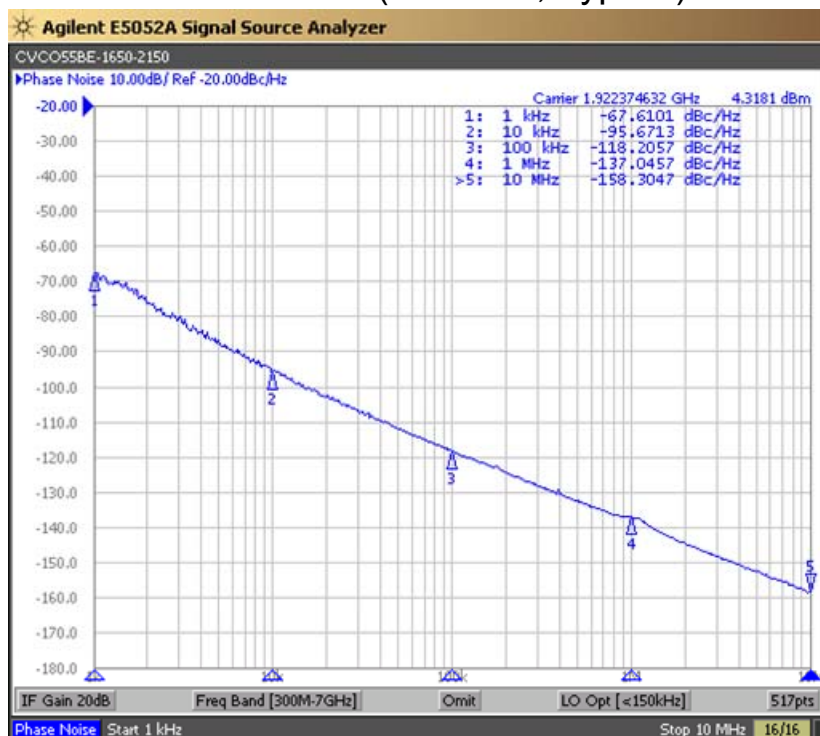


**CRYSTEK**  
**CORPORATION**

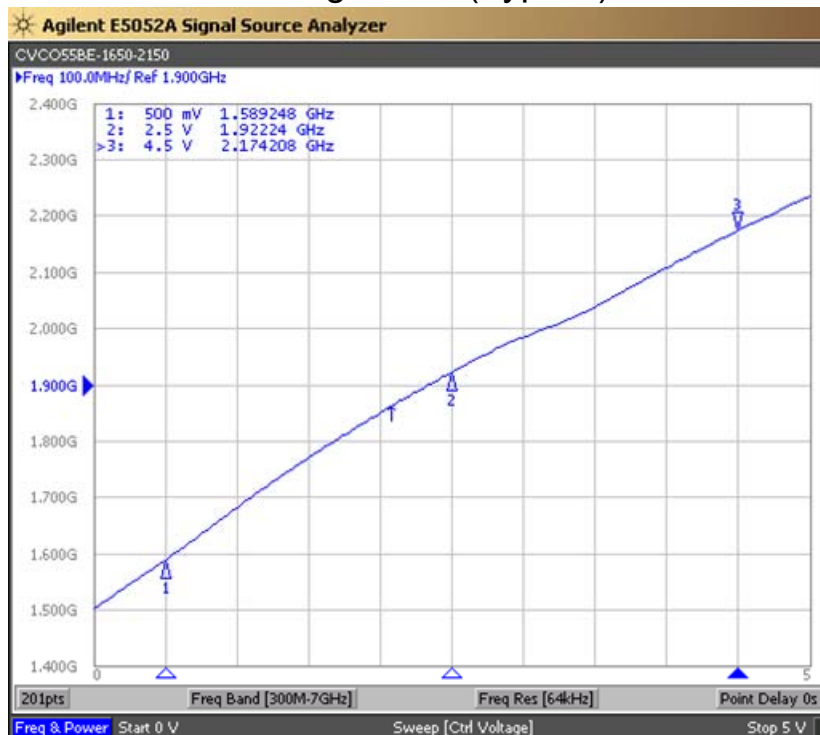
12730 COMMONWEALTH DRIVE • FORT MYERS, FLORIDA 33913  
PHONE: 239-561-3311 • 800-237-3061  
FAX: 239-561-1025 • WWW.CRYSTEK.COM



### Phase Noise (1 Hz BW, Typical)



### Tuning Curve (Typical)



#### Product Control:

|                      |                    |               |             |
|----------------------|--------------------|---------------|-------------|
| Crystek Part Number: | CRBV55BE-1650-2150 | Release Date: | 30-Jan-2014 |
| Revision Level:      | E                  | Responsible:  | C. Vales    |

Specification is subject to change without notice



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Crystek:](#)

[CRBV55BE-1650-2150](#)