

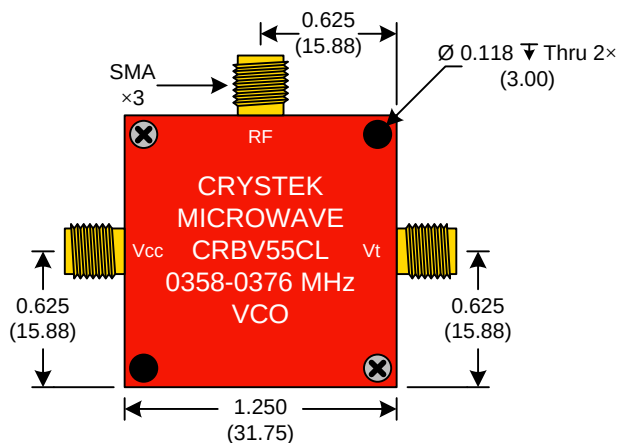
**CRYSTEK**  
**MICROWAVE**  
A DIVISION OF CRYSTEK CORPORATION

**RedBox** VCO  
CRBV55CL-0358-0376

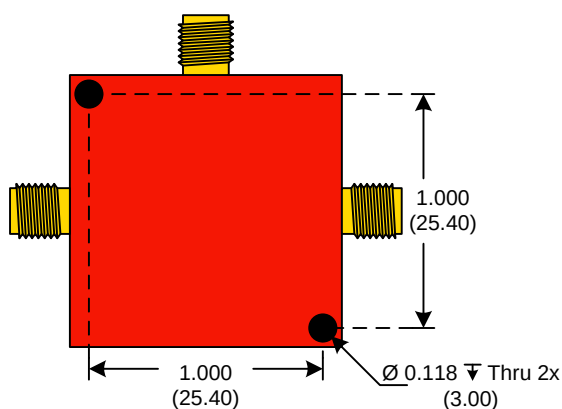


| PERFORMANCE SPECIFICATION                       | MIN  | TYP  | MAX  | UNITS     |
|-------------------------------------------------|------|------|------|-----------|
| Lower Frequency:                                |      |      | 358  | MHz       |
| Upper Frequency:                                | 376  |      |      | MHz       |
| Tuning Voltage:                                 | 1.5  |      | 3.5  | VDC       |
| Supply Voltage:                                 | 4.75 | 5.0  | 5.25 | VDC       |
| Output Power:                                   | -4.0 | 0    | +4.0 | dBm       |
| Supply Current:                                 |      | 16   | 25   | mA        |
| Harmonic Suppression (2 <sup>nd</sup> Harmonic) |      | -15  | -10  | dBc       |
| Pushing:                                        |      | 0.5  | 2.0  | MHz/V     |
| Pulling, all Phases:                            |      | 0.5  | 2.0  | MHz pk-pk |
| Tuning Sensitivity:                             |      | 18   |      | MHz/V     |
| Phase Noise @ 10kHz offset:                     |      | -110 | -105 | dBc/Hz    |
| Phase Noise @ 100kHz offset:                    |      | -131 | -126 | dBc/Hz    |
| Load Impedance:                                 |      | 50   |      | $\Omega$  |
| Input Capacitance:                              |      |      | 120  | pF        |
| Operating Temperature Range:                    | -40  |      | +85  | °C        |
| Storage Temperature Range:                      | -45  |      | +90  | °C        |

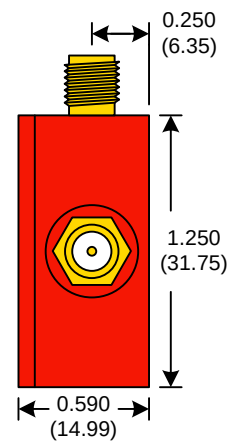
FRONT



BACK



SIDE



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

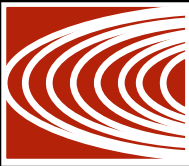
**Product Control:**

|                      |                    |               |             |
|----------------------|--------------------|---------------|-------------|
| Crystek Part Number: | CRBV55CL-0358-0376 | Release Date: | 23-Jan-2015 |
| Revision Level:      | B                  | Responsible:  | C. Vales    |

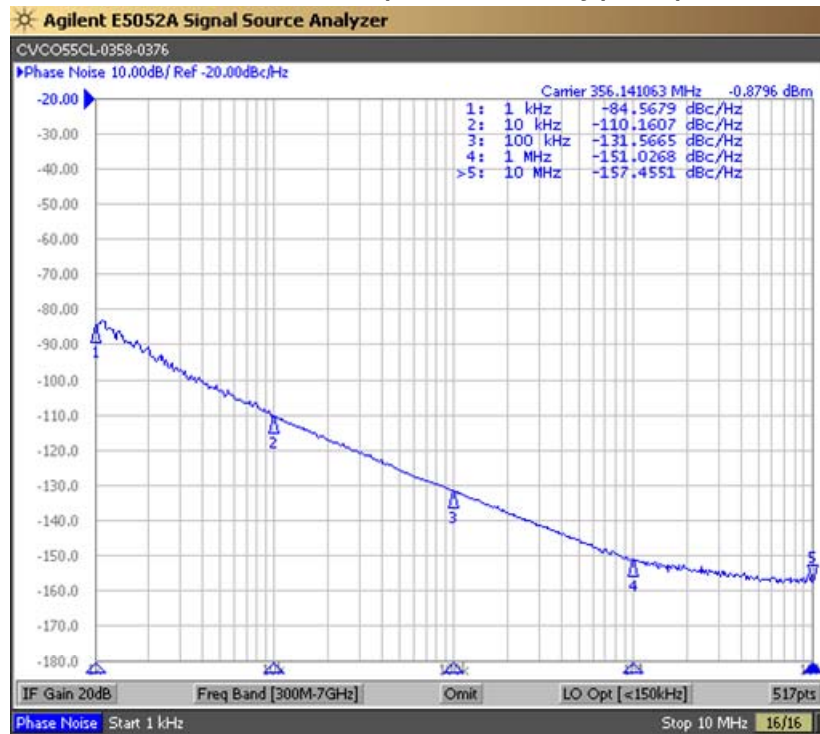


**CRYSTEK**  
**CORPORATION**

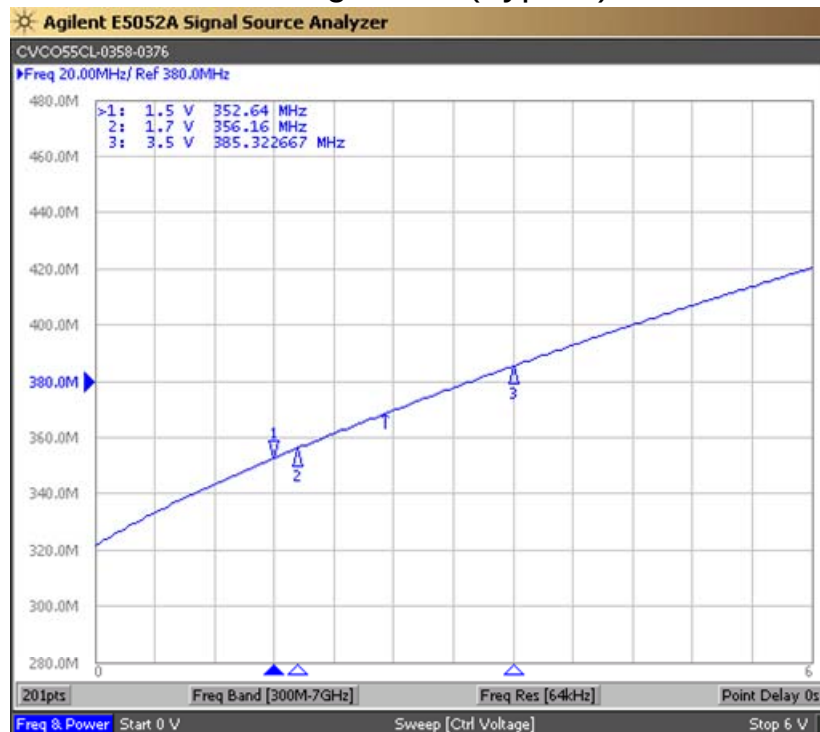
12730 COMMONWEALTH DRIVE • FORT MYERS, FLORIDA 33913  
PHONE: 239-561-3311 • 800-237-3061  
FAX: 239-561-1025 • WWW.CRYSTEK.COM



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



#### Tuning Curve (Typical)



#### Product Control:

|                      |                    |               |             |
|----------------------|--------------------|---------------|-------------|
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| Revision Level:      | B                  | Responsible:  | C. Vales    |

Specification is subject to change without notice



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