

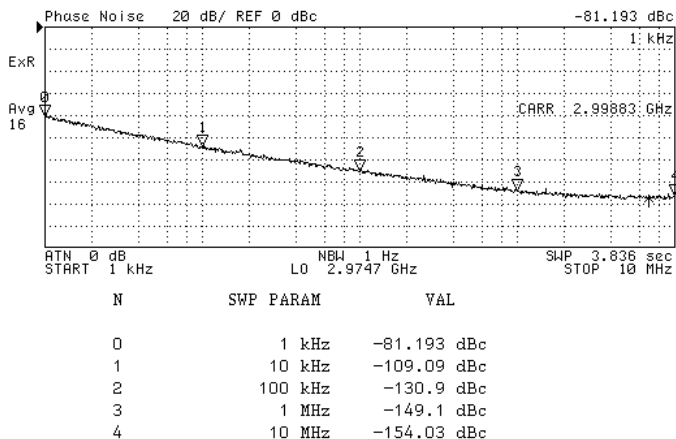
**CRYSTEK**  
**MICROWAVE**  
A DIVISION OF CRYSTEK CORPORATION

# Coaxial Resonator Oscillator-CRO CVCO55CC-3000-3170

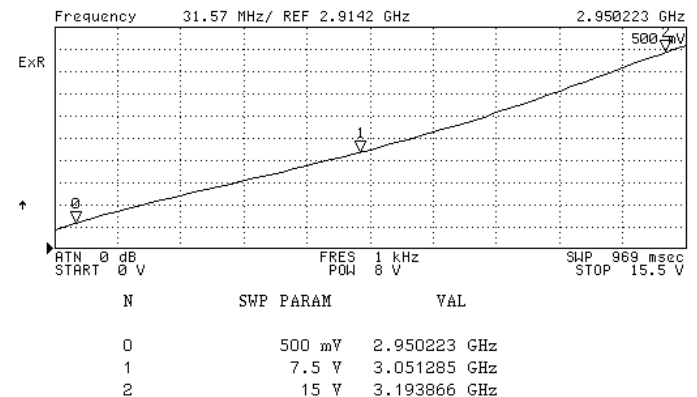


| PERFORMANCE SPECIFICATION                        | MIN  | TYP  | MAX  | UNITS              |
|--------------------------------------------------|------|------|------|--------------------|
| Lower Frequency:                                 |      |      | 3000 | MHz                |
| Upper Frequency:                                 | 3170 |      |      | MHz                |
| Tuning Voltage:                                  | 0.5  |      | 15.0 | VDC                |
| Supply Voltage:                                  | 7.6  | 8.0  | 8.4  | VDC                |
| Output Power:                                    | +3.0 | +5.0 | +7.0 | dBm                |
| Supply Current:                                  |      | 25   | 35   | mA                 |
| Harmonic Suppression (2 <sup>nd</sup> Harmonic): |      | -15  | -10  | dBc                |
| Pushing:                                         |      | 0.5  | 1.0  | MHz/V              |
| Pulling, all Phases:                             |      | 3.0  | 5.0  | MHz pk-pk          |
| Tuning Sensitivity:                              |      | 20   |      | MHz/V              |
| Phase Noise @ 10kHz offset:                      |      | -109 | -106 | dBc/Hz             |
| Phase Noise @ 100kHz offset:                     |      | -130 | -128 | dBc/Hz             |
| Load Impedance:                                  |      | 50   |      | $\Omega$           |
| Input Capacitance:                               |      |      | 22   | pF                 |
| Operating Temperature Range:                     | -40  |      | +85  | $^{\circ}\text{C}$ |
| Storage Temperature Range:                       | -45  |      | +90  | $^{\circ}\text{C}$ |

Phase Noise (1 Hz BW, Typical)

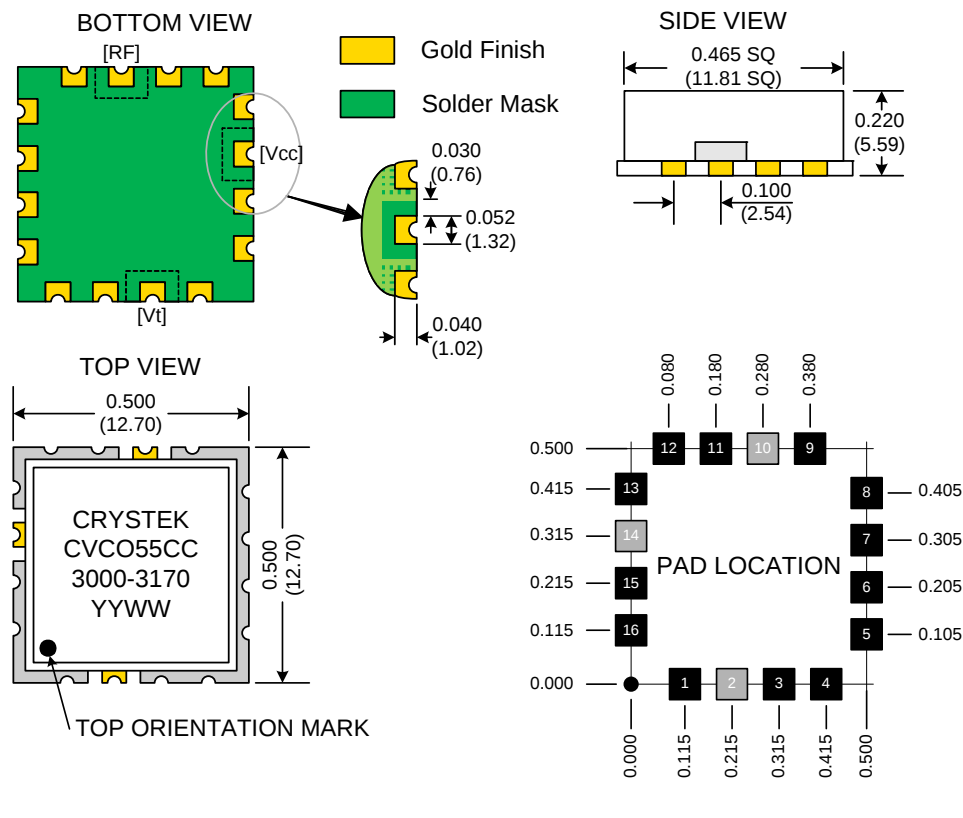


Tuning Curve (Typical)

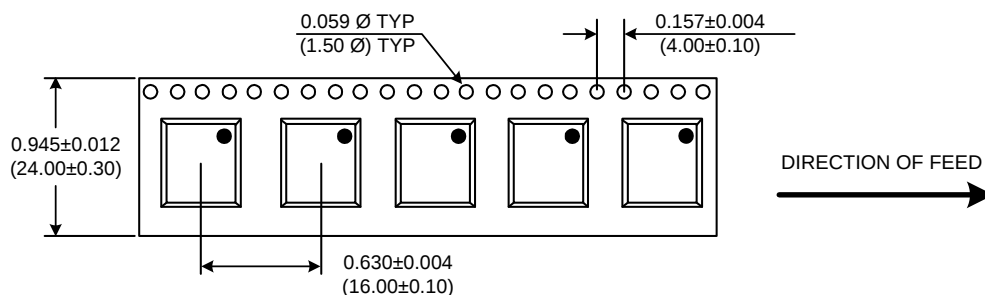


**CRYSTEK**  
**CORPORATION**

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



### TAPE AND REEL



Drawing not to scale

### Product Control:

|                      |                    |               |           |
|----------------------|--------------------|---------------|-----------|
| Crystek Part Number: | CVCO55CC-3000-3170 | Release Date: | 19-Feb-08 |
| Revision Level:      | D                  | Responsible:  | C. Vales  |

Specification is subject to change without notice

Page 2 of 2