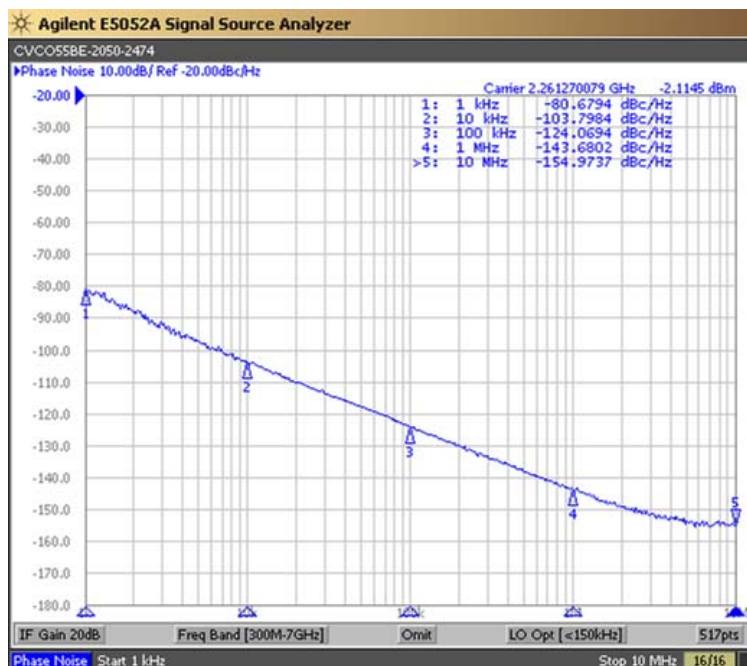


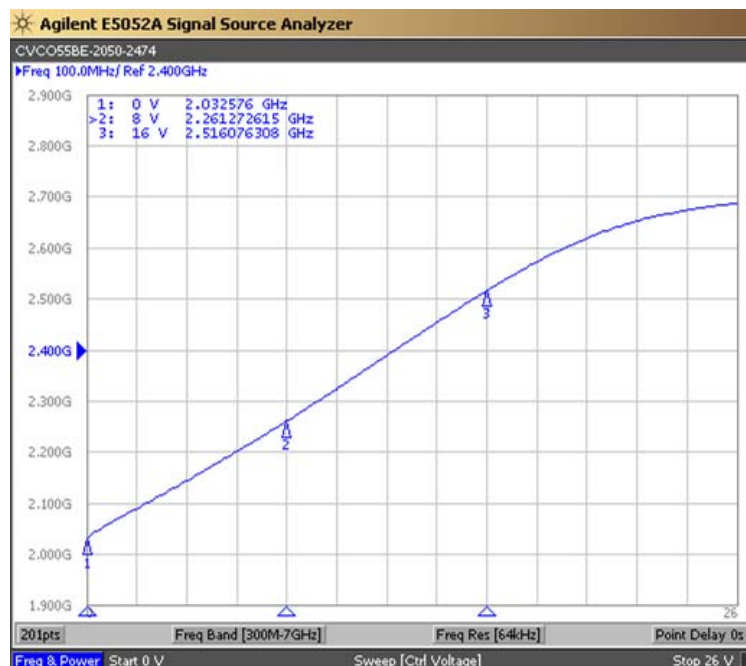


| PERFORMANCE SPECIFICATION                        | MIN  | TYP  | MAX  | UNITS              |
|--------------------------------------------------|------|------|------|--------------------|
| Lower Frequency:                                 |      |      | 2050 | MHz                |
| Upper Frequency:                                 | 2474 |      |      | MHz                |
| Tuning Voltage:                                  | 0    |      | 16.0 | VDC                |
| Supply Voltage:                                  | 7.6  | 8.0  | 8.4  | VDC                |
| Output Power:                                    | +1.0 | +4.0 | +7.0 | dBm                |
| Supply Current:                                  |      | 28   | 35   | mA                 |
| Harmonic Suppression (2 <sup>nd</sup> Harmonic): |      | -15  | -8   | dBc                |
| Pushing:                                         |      | 0.5  | 1.0  | MHz/V              |
| Pulling, all Phases:                             |      | 1.0  | 2.5  | MHz pk-pk          |
| Tuning Sensitivity:                              |      | 30   |      | MHz/V              |
| Phase Noise @ 10kHz offset:                      |      | -101 | -98  | dBc/Hz             |
| Phase Noise @ 100kHz offset:                     |      | -121 | -118 | dBc/Hz             |
| Load Impedance:                                  |      | 50   |      | $\Omega$           |
| Input Capacitance:                               |      |      | 47   | 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)

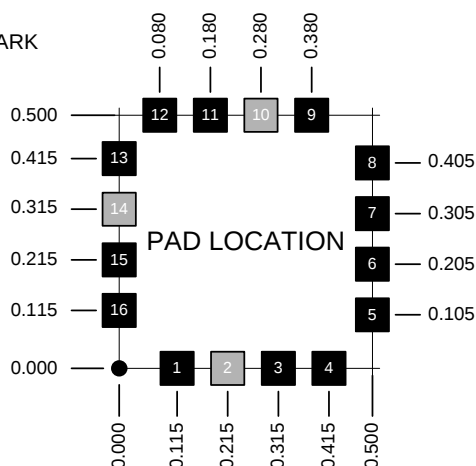
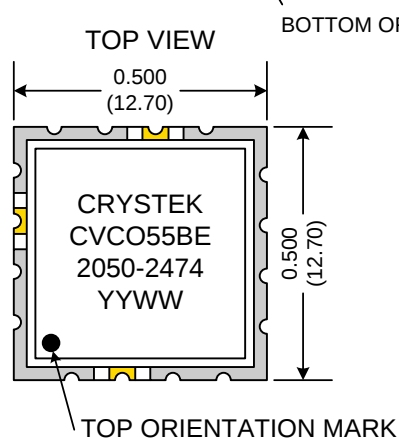




**CRYSTEK**  
**MICROWAVE**  
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# Voltage Controlled Oscillator-VCO

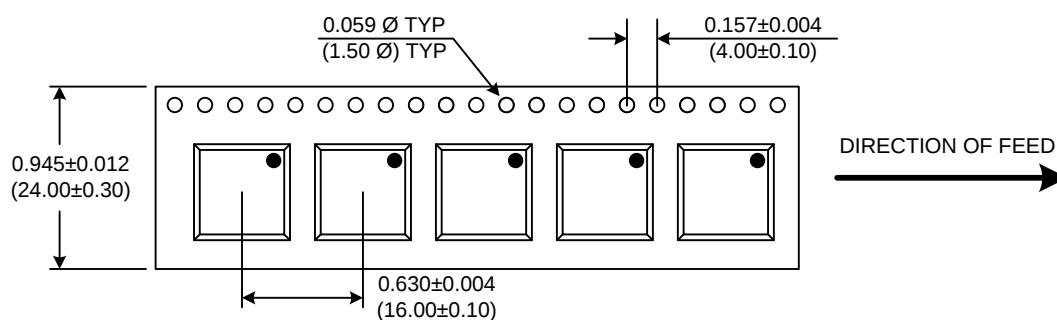
## CVCO55BE-2050-2474



| Pad    | Connection |
|--------|------------|
| 2      | Vt         |
| 10     | RF-OUTPUT  |
| 14     | Vcc        |
| Others | GROUND     |

- Unless otherwise specified, Dimensions are in:  $\frac{IN}{(mm)}$
- Pad Location Dimensions are in: Inches

### TAPE AND REEL



Drawing not to scale

#### Product Control:

|                      |                    |               |             |
|----------------------|--------------------|---------------|-------------|
| Crystek Part Number: | CVCO55BE-2050-2474 | Release Date: | 13-Feb-2014 |
| Revision Level:      | G                  | Responsible:  | C. Vales    |

Specification is subject to change without notice

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**CRYSTEK**  
CORPORATION

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

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