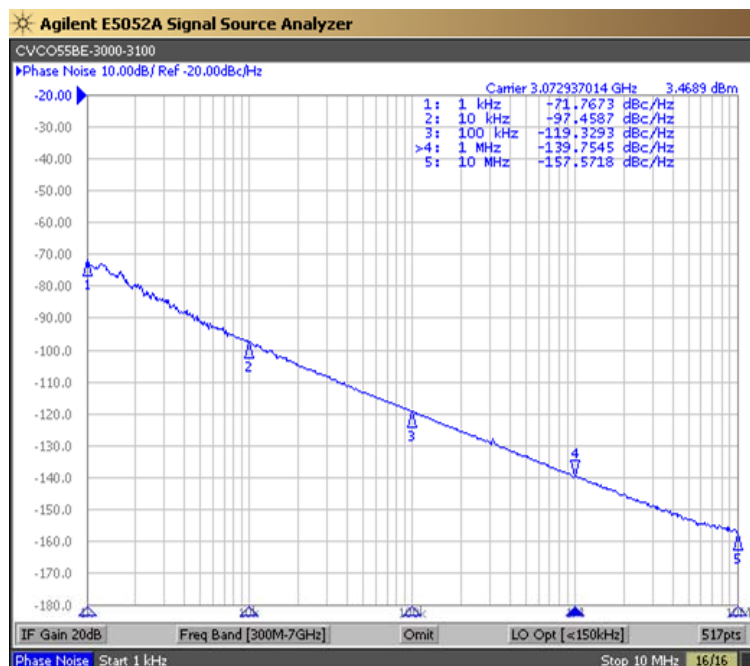


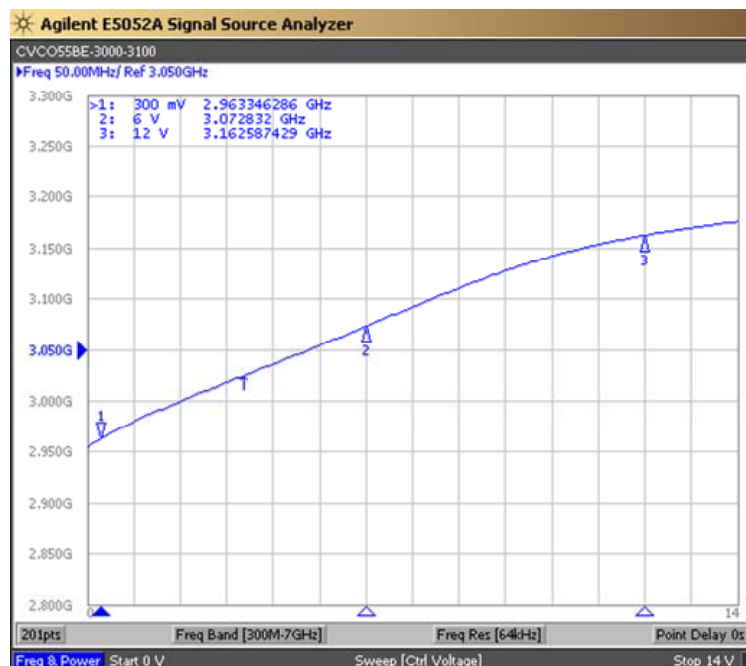


| PERFORMANCE SPECIFICATION                        | MIN  | TYP  | MAX  | UNITS     |
|--------------------------------------------------|------|------|------|-----------|
| Lower Frequency:                                 |      |      | 3000 | MHz       |
| Upper Frequency:                                 | 3100 |      |      | MHz       |
| Tuning Voltage:                                  | 0.3  |      | 12.0 | VDC       |
| Supply Voltage:                                  | 4.75 | 5.0  | 5.25 | VDC       |
| Output Power:                                    | +2.0 | +5.0 | +8.0 | dBm       |
| Supply Current:                                  |      | 17   | 25   | mA        |
| Harmonic Suppression (2 <sup>nd</sup> Harmonic): |      | -15  | -10  | dBc       |
| Pushing:                                         |      | 3.0  | 5.0  | MHz/V     |
| Pulling, all Phases:                             |      | 6.0  | 8.0  | MHz pk-pk |
| Tuning Sensitivity:                              |      | 23   |      | MHz/V     |
| Phase Noise @ 10kHz offset:                      |      | -99  | -96  | dBc/Hz    |
| Phase Noise @ 100kHz offset:                     |      | -119 | -116 | dBc/Hz    |
| Load Impedance:                                  |      | 50   |      | $\Omega$  |
| Input Capacitance:                               |      |      | 30   | pF        |
| Operating Temperature Range:                     | -40  |      | +85  | °C        |
| Storage Temperature Range:                       | -45  |      | +90  | °C        |

Phase Noise (1 Hz BW, Typical)



Tuning Curve (Typical)



### Product Control:

|                      |                    |               |             |
|----------------------|--------------------|---------------|-------------|
| Crystek Part Number: | CVCO55BE-3000-3100 | Release Date: | 14-Nov-2018 |
| Revision Level:      | G                  | Responsible:  | C. Vales    |

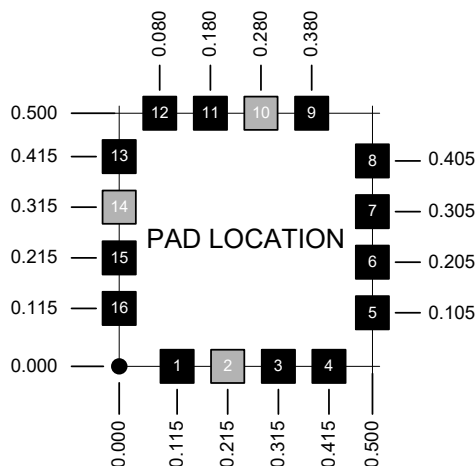
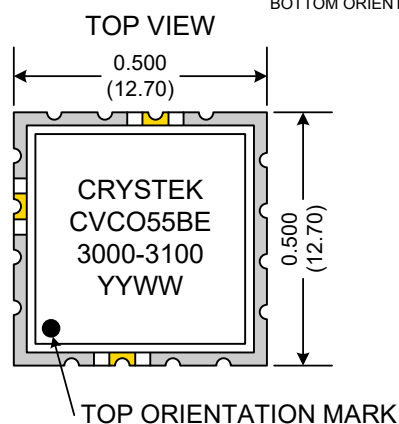
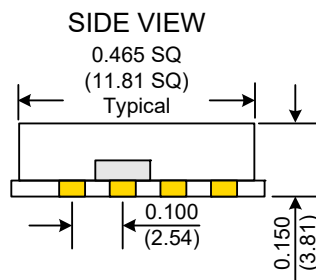
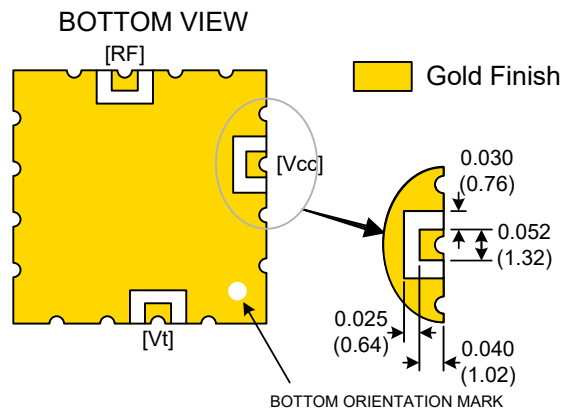




**CRYSTEK**  
**MICROWAVE**  
A DIVISION OF CRYSTEK CORPORATION

# Voltage Controlled Oscillator-VCO

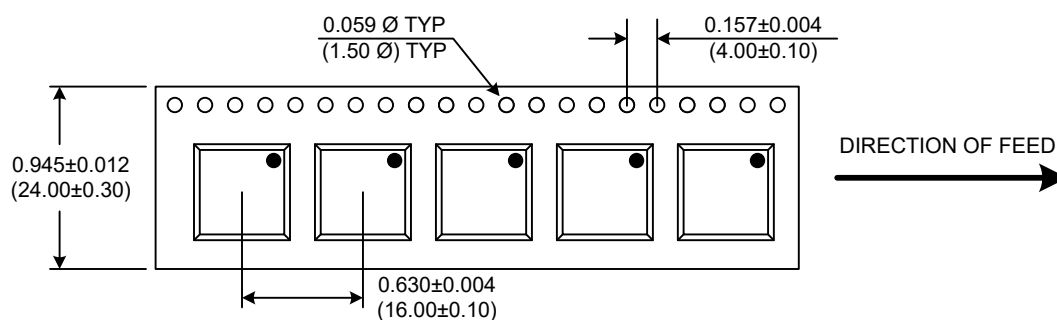
## CVCO55BE-3000-3100



| 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-3000-3100 | Release Date: | 14-Nov-2018 |
| Revision Level:      | G                  | Responsible:  | C. Vales    |

Specification is subject to change without notice

Page 2 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

# Mouser Electronics

Authorized Distributor

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

[Crystek:](#)

[CVCO55BE-3000-3100](#)