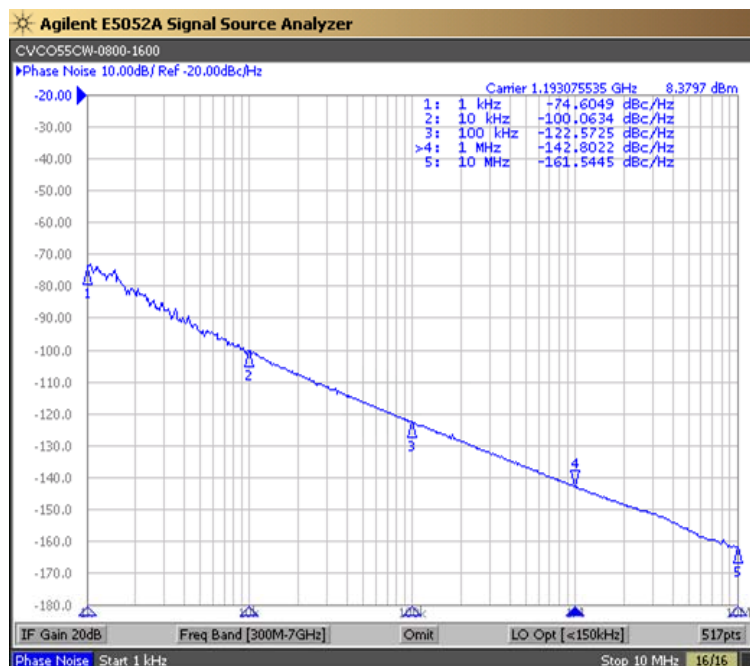


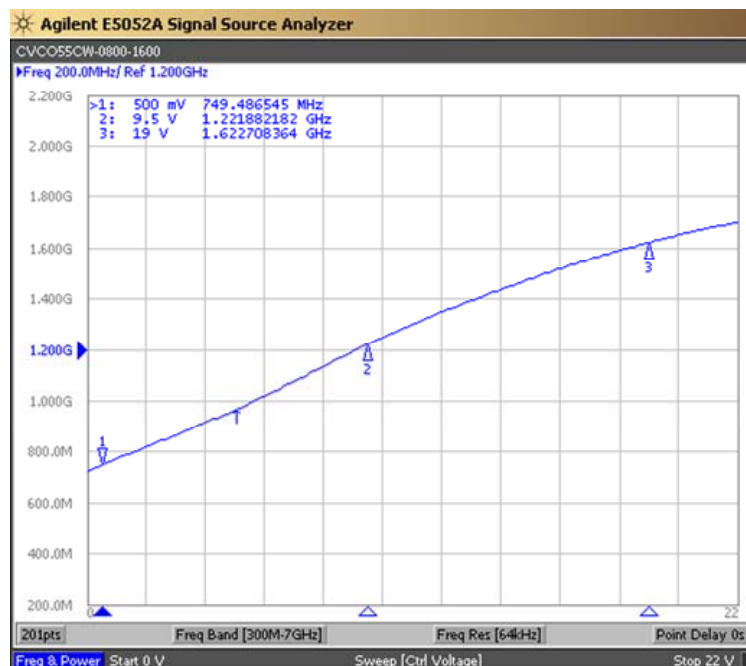


| PERFORMANCE SPECIFICATION                        | MIN  | TYP  | MAX   | UNITS     |
|--------------------------------------------------|------|------|-------|-----------|
| Lower Frequency:                                 |      |      | 800   | MHz       |
| Upper Frequency:                                 | 1600 |      |       | MHz       |
| Tuning Voltage:                                  | 0.5  |      | 19.0  | VDC       |
| Supply Voltage:                                  | 11.0 | 11.5 | 12.0  | VDC       |
| Output Power:                                    | +5.0 | +9.5 | +14.0 | dBm       |
| Supply Current:                                  |      | 15   | 30    | mA        |
| Harmonic Suppression (2 <sup>nd</sup> Harmonic): |      | -10  |       | dBc       |
| Pushing:                                         |      |      | 2.0   | MHz/V     |
| Pulling, all Phases:                             |      |      | 10.0  | MHz pk-pk |
| Tuning Sensitivity:                              |      | 60   |       | MHz/V     |
| Phase Noise @ 10kHz offset:                      |      | -100 |       | dBc/Hz    |
| Phase Noise @ 100kHz offset:                     |      | -120 |       | dBc/Hz    |
| Load Impedance:                                  |      | 50   |       | $\Omega$  |
| Input Capacitance:                               |      |      | 47    | 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: | CVCO55CW-0800-1600 | Release Date: | 27-Jul-2017 |
| Revision Level:      | F                  | Responsible:  | C. Vales    |

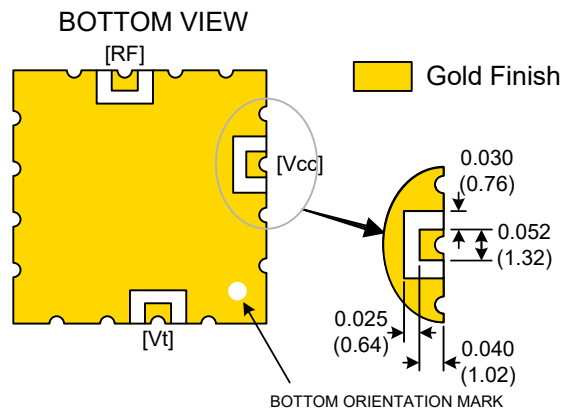




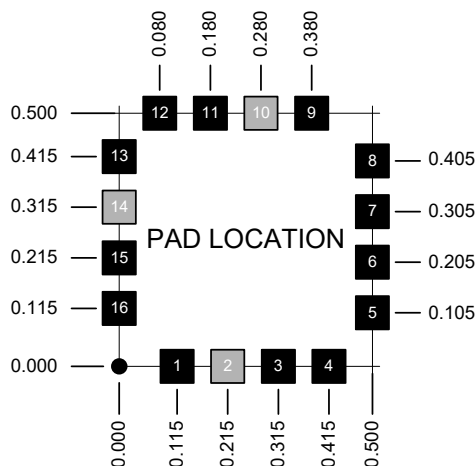
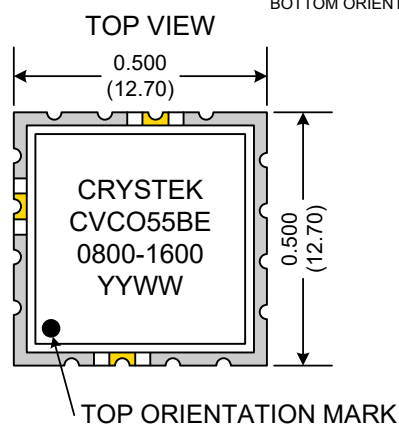
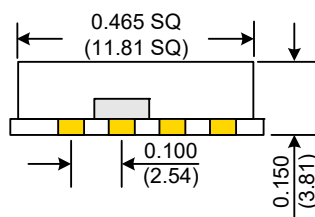
**CRYSTEK**  
**MICROWAVE**  
A DIVISION OF CRYSTEK CORPORATION

# Voltage Controlled Oscillator-VCO

## CVCO55CW-0800-1600



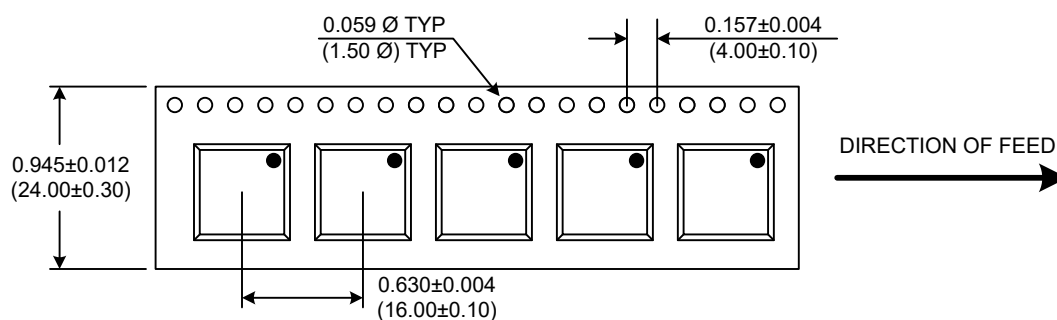
**SIDE VIEW**



| 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: | CVCO55CW-0800-1600 | Release Date: | 27-Jul-2017 |
| Revision Level:      | F                  | Responsible:  | C. Vales    |

Specification is subject to change without notice

Page 2 of 2



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