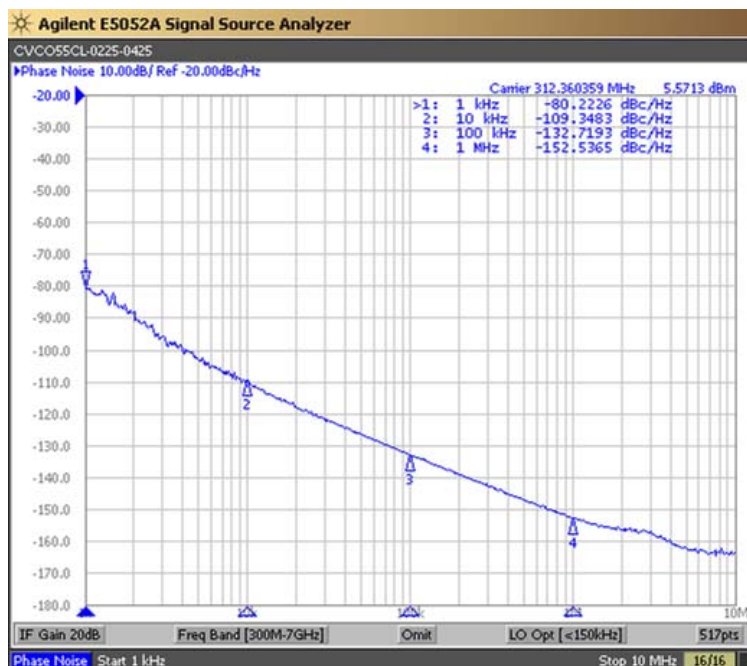


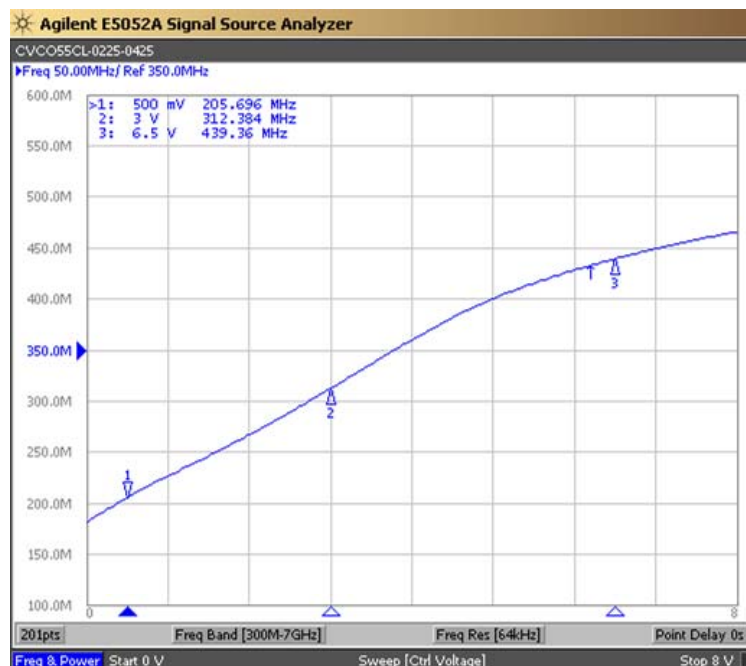


| PERFORMANCE SPECIFICATION                        | MIN  | TYP  | MAX  | UNITS              |
|--------------------------------------------------|------|------|------|--------------------|
| Lower Frequency:                                 |      |      | 225  | MHz                |
| Upper Frequency:                                 | 425  |      |      | MHz                |
| Tuning Voltage:                                  | 0.5  |      | 6.5  | VDC                |
| Supply Voltage:                                  | 6.75 | 7.0  | 7.25 | VDC                |
| Output Power:                                    | 0    | +3.0 | +6.0 | dBm                |
| Supply Current:                                  |      | 5    | 15   | mA                 |
| Harmonic Suppression (2 <sup>nd</sup> Harmonic): |      | -15  |      | dBc                |
| Pushing:                                         |      | 1.0  | 3.0  | MHz/V              |
| Pulling, all Phases:                             |      | 1.0  | 5.0  | MHz pk-pk          |
| Tuning Sensitivity:                              |      | 75   |      | MHz/V              |
| Phase Noise @ 10kHz offset:                      |      | -100 |      | dBc/Hz             |
| Phase Noise @ 100kHz offset:                     |      | -123 | -118 | dBc/Hz             |
| Load Impedance:                                  |      | 50   |      | $\Omega$           |
| Input Capacitance:                               |      |      | 100  | 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)

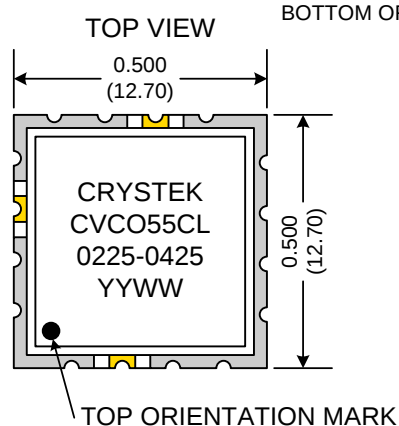
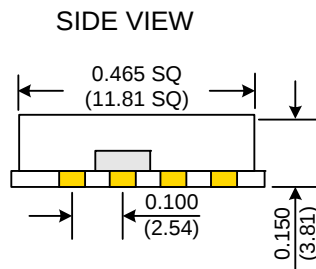
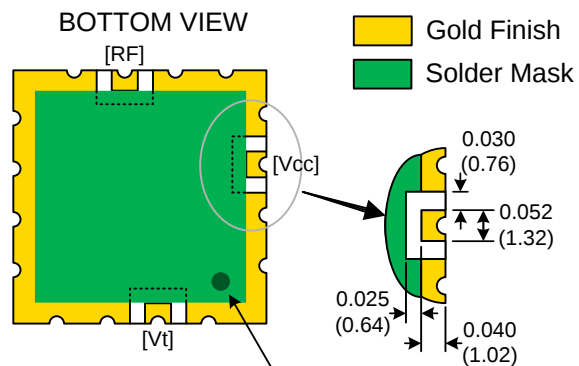




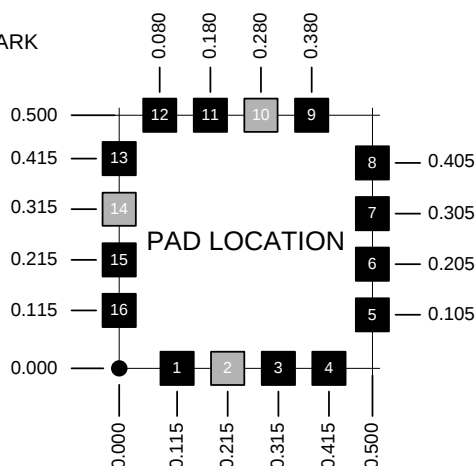
**CRYSTEK**  
**MICROWAVE**  
A DIVISION OF CRYSTEK CORPORATION

# Voltage Controlled Oscillator-VCO

## CVCO55CL-0225-0425



BOTTOM ORIENTATION MARK



| 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: | CVCO55CL-0225-0425 | Release Date: | 07-Aug-12 |
| Revision Level:      | E                  | Responsible:  | C. Vales  |

Specification is subject to change without notice

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