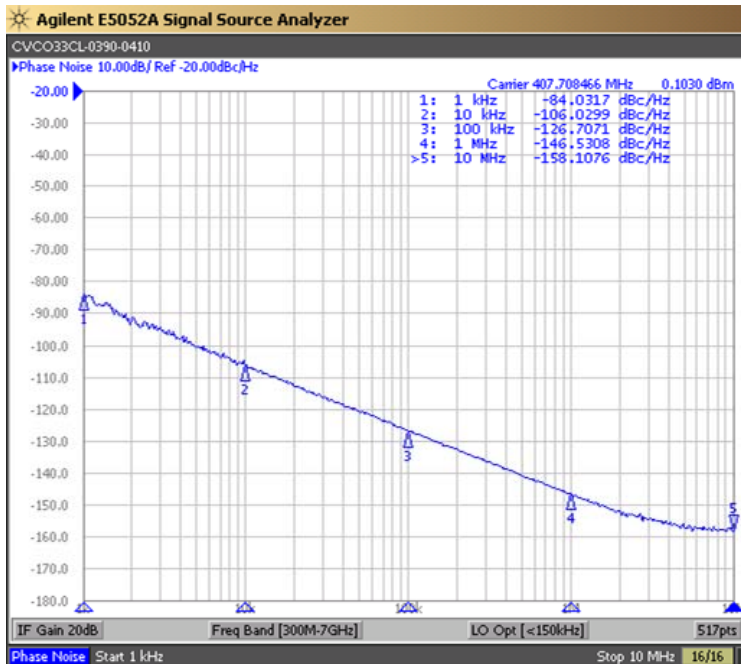
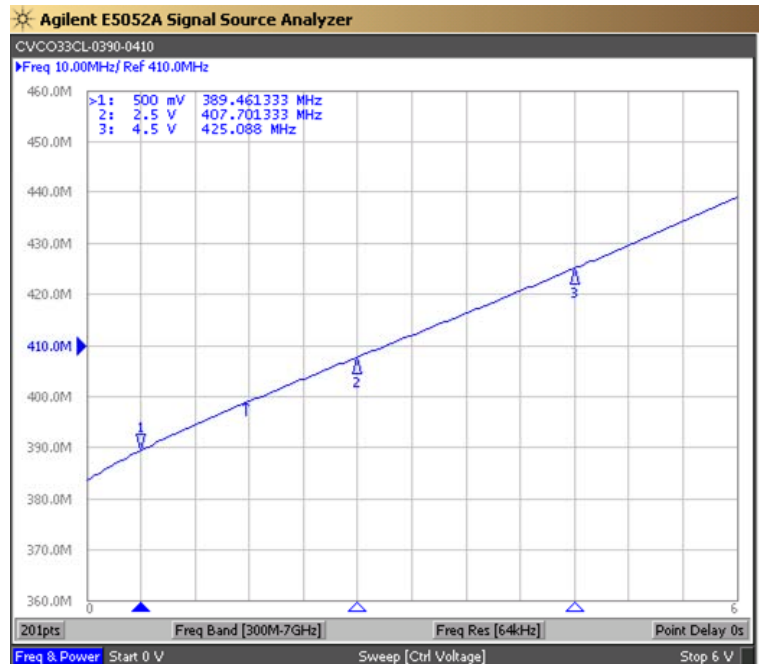


| PERFORMANCE SPECIFICATION                        | MIN  | TYP  | MAX  | UNITS              |
|--------------------------------------------------|------|------|------|--------------------|
| Lower Frequency:                                 |      |      | 390  | MHz                |
| Upper Frequency:                                 | 410  |      |      | MHz                |
| Tuning Voltage:                                  | 0.5  |      | 4.5  | VDC                |
| Supply Voltage:                                  | 4.75 | 5.0  | 5.25 | VDC                |
| Output Power:                                    | -3.0 | 0    | +3.0 | dBm                |
| Supply Current:                                  |      | 10   | 15   | mA                 |
| Harmonic Suppression (2 <sup>nd</sup> Harmonic): |      | -12  | -9   | dBc                |
| Pushing:                                         |      | 1.0  | 1.5  | MHz/V              |
| Pulling, all Phases:                             |      | 1.0  | 1.5  | MHz pk-pk          |
| Tuning Sensitivity:                              |      | 12   |      | MHz/V              |
| Phase Noise @ 10kHz offset:                      |      | -110 |      | dBc/Hz             |
| Phase Noise @ 100kHz offset:                     |      | -130 |      | 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)

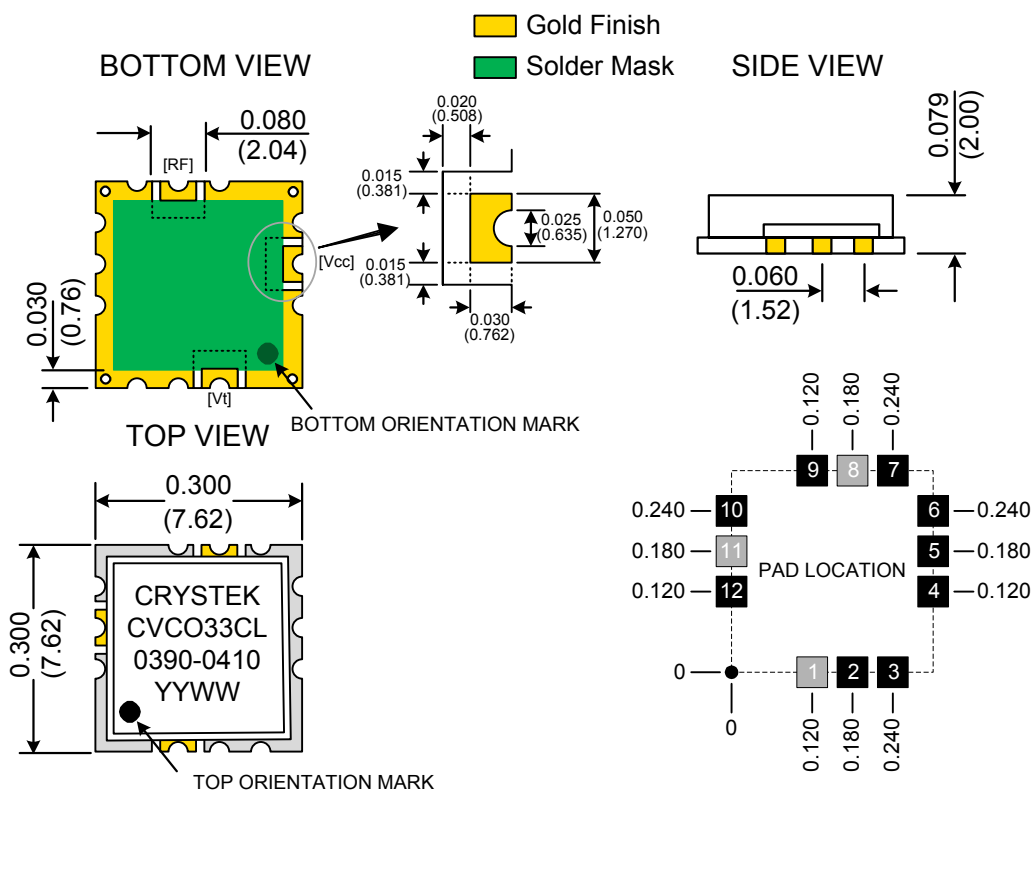




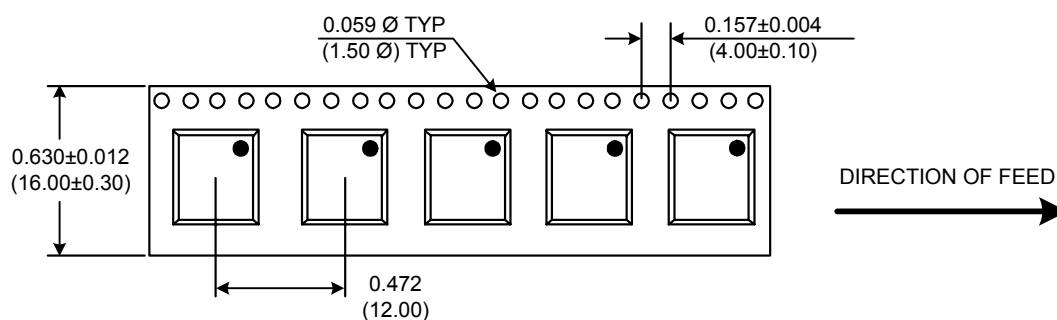
**CRYSTEK**  
**MICROWAVE**  
A DIVISION OF CRYSTEK CORPORATION

# Voltage Controlled Oscillator-VCO

## CVCO33CL-0390-0410



### TAPE AND REEL



Drawing not to scale

#### Product Control:

|                      |                    |               |             |
|----------------------|--------------------|---------------|-------------|
| Crystek Part Number: | CVCO33CL-0390-0410 | Release Date: | 20-March-08 |
| Revision Level:      | C                  | Responsible:  | C. Vales    |

Specification is subject to change without notice

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