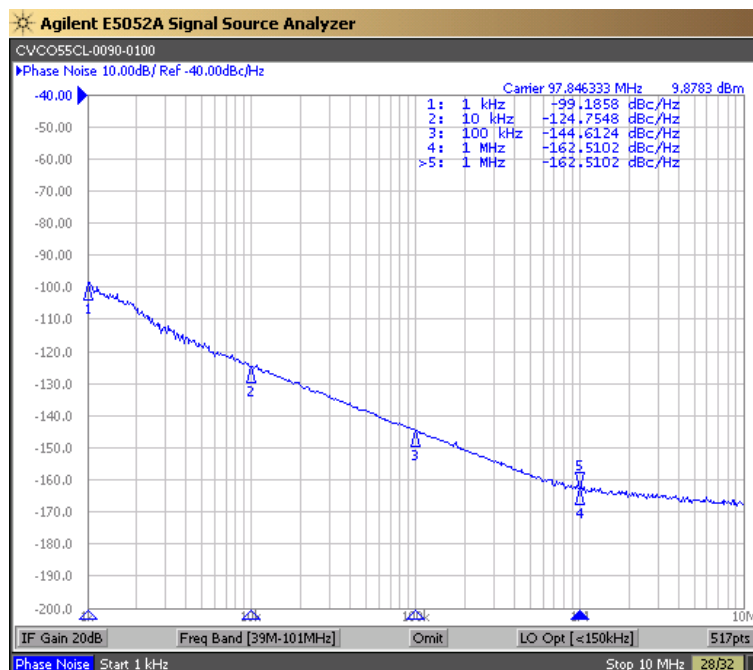
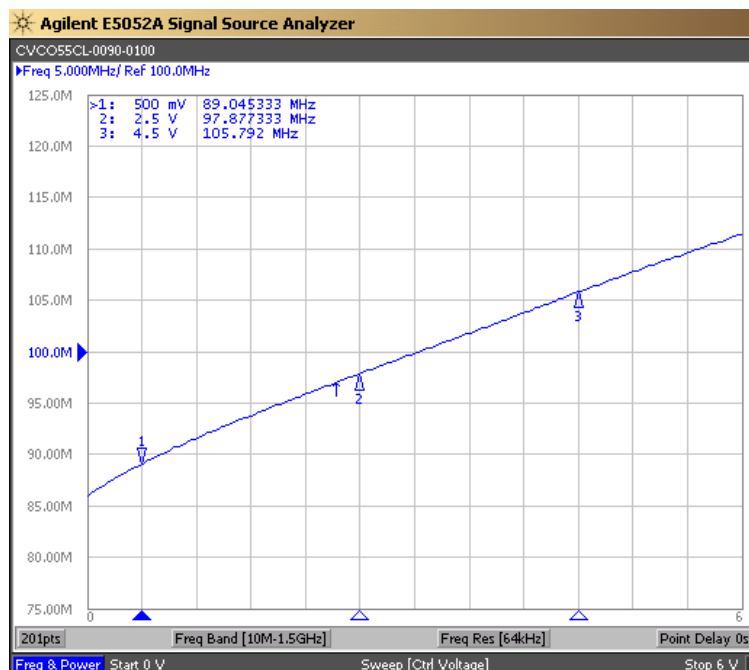


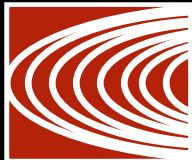
| PERFORMANCE SPECIFICATION                        | MIN  | TYP  | MAX   | UNITS     |
|--------------------------------------------------|------|------|-------|-----------|
| Lower Frequency:                                 |      |      | 90    | MHz       |
| Upper Frequency:                                 | 100  |      |       | MHz       |
| Tuning Voltage:                                  | 0.5  |      | 4.5   | VDC       |
| Supply Voltage:                                  | 4.75 | 5.0  | 5.25  | VDC       |
| Output Power:                                    | +5.0 | +8.0 | +11.0 | dBm       |
| Supply Current:                                  |      | 15   | 25    | mA        |
| Harmonic Suppression (2 <sup>nd</sup> Harmonic): |      | -10  |       | dBc       |
| Pushing:                                         |      | 0.2  | 0.4   | MHz/V     |
| Pulling, all Phases:                             |      | 0.2  | 0.4   | MHz pk-pk |
| Tuning Sensitivity:                              |      | 8    |       | MHz/V     |
| Phase Noise @ 10kHz offset:                      |      | -119 | -117  | dBc/Hz    |
| Phase Noise @ 100kHz offset:                     |      | -138 | -133  | dBc/Hz    |
| Load Impedance:                                  |      | 50   |       | $\Omega$  |
| Input Capacitance:                               |      |      | 150   | pF        |
| Operating Temperature Range:                     | -40  |      | +85   | °C        |
| Storage Temperature Range:                       | -45  |      | +90   | °C        |

Phase Noise (1 Hz BW, Typical)



Tuning Curve (Typical)

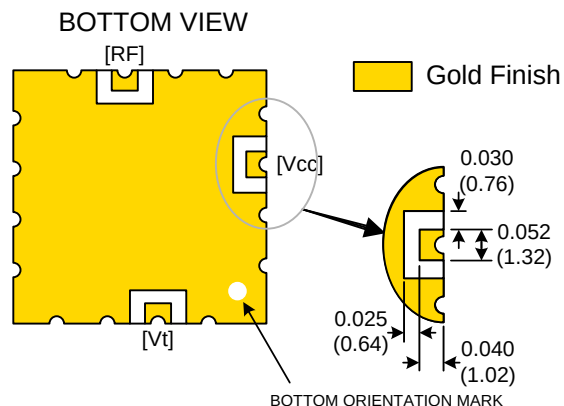




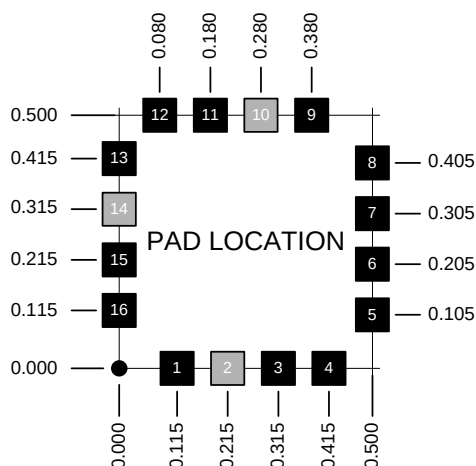
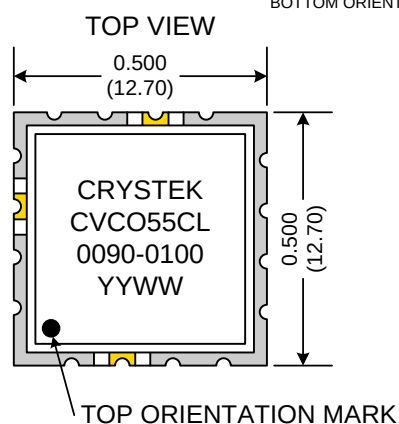
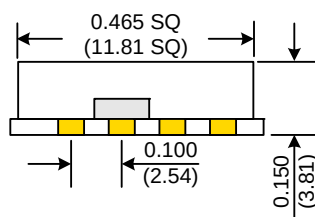
**CRYSTEK**  
**MICROWAVE**  
A DIVISION OF CRYSTEK CORPORATION

# Voltage Controlled Oscillator-VCO

## CVCO55CL-0090-0100



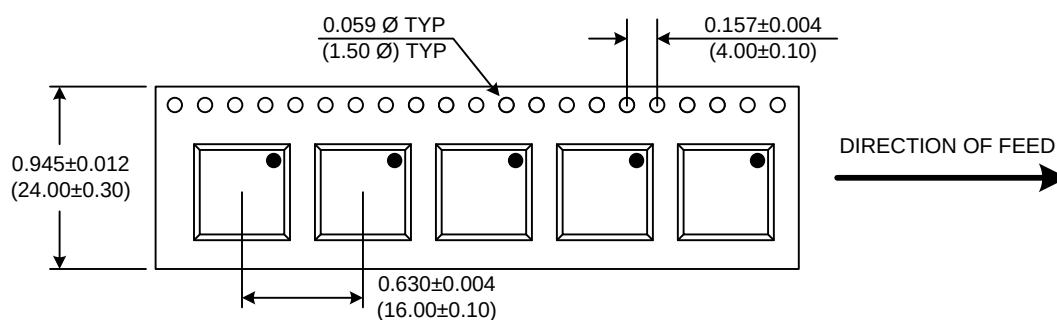
### SIDE VIEW



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

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

### TAPE AND REEL



Drawing not to scale

#### Product Control:

|                      |                    |               |             |
|----------------------|--------------------|---------------|-------------|
| Crystek Part Number: | CVCO55CL-0090-0100 | Release Date: | 09-Dec-2013 |
| Revision Level:      | B                  | Responsible:  | C. Vales    |

Specification is subject to change without notice

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