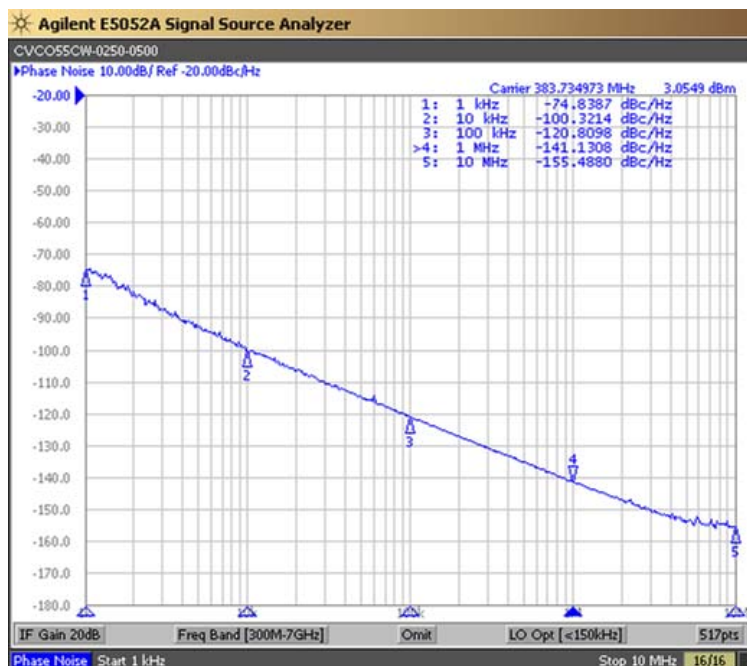


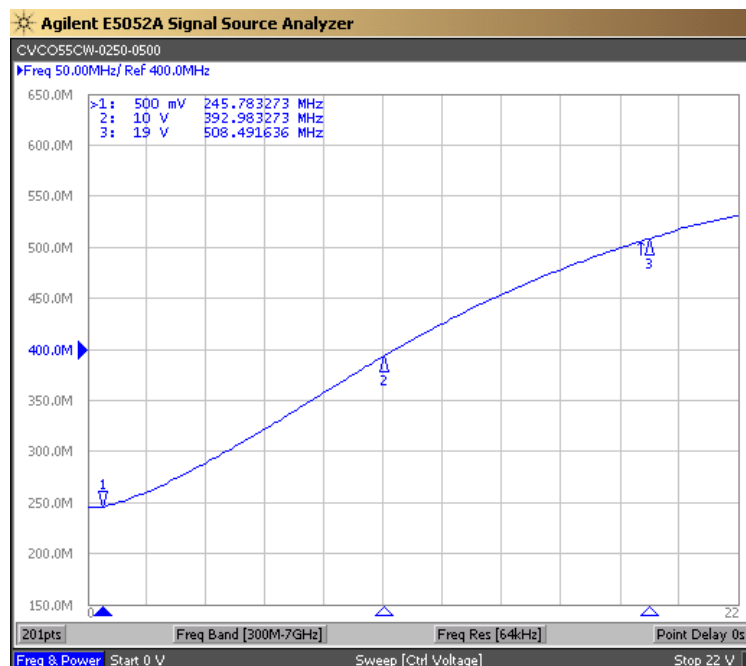


| PERFORMANCE SPECIFICATION                        | MIN   | TYP  | MAX   | UNITS     |
|--------------------------------------------------|-------|------|-------|-----------|
| Lower Frequency:                                 |       |      | 250   | MHz       |
| Upper Frequency:                                 | 500   |      |       | MHz       |
| Tuning Voltage:                                  | 0.5   |      | 19.0  | VDC       |
| Supply Voltage:                                  | 14.25 | 15.0 | 15.75 | VDC       |
| Output Power:                                    | -3.0  | 0    | +3.0  | dBm       |
| Supply Current:                                  |       | 10   | 15    | mA        |
| Harmonic Suppression (2 <sup>nd</sup> Harmonic): |       | -8   |       | dBc       |
| Pushing:                                         |       | 1.5  | 3.0   | MHz/V     |
| Pulling, all Phases:                             |       | 3.0  | 6.0   | MHz pk-pk |
| Tuning Sensitivity:                              |       | 75   |       | MHz/V     |
| Phase Noise @ 10kHz offset:                      |       | -101 | -97   | dBc/Hz    |
| Phase Noise @ 100kHz offset:                     |       | -122 | -118  | dBc/Hz    |
| Load Impedance:                                  |       | 50   |       | $\Omega$  |
| Input Capacitance:                               |       |      | 100   | pF        |
| Operating Temperature Range:                     | -40   |      | +85   | °C        |
| Storage Temperature Range:                       | -45   |      | +90   | °C        |

Phase Noise (1 Hz BW, Typical)



Tuning Curve (Typical)

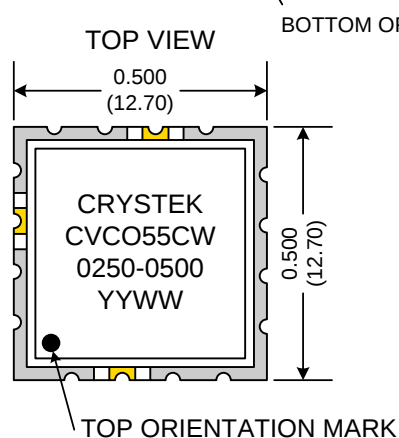
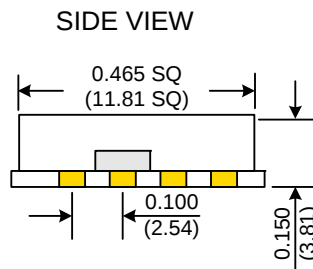




**CRYSTEK**  
**MICROWAVE**  
A DIVISION OF CRYSTEK CORPORATION

# Voltage Controlled Oscillator-VCO

## CVCO55CW-0250-0500



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: | CVCO55CW-0250-0500 | Release Date: | 15-Aug-12 |
| Revision Level:      | G                  | Responsible:  | C. Vales  |

Specification is subject to change without notice

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**CRYSTEK**  
CORPORATION

12730 COMMONWEALTH DRIVE • FORT MYERS, FLORIDA 33913  
PHONE: 239-561-3311 • 800-237-3061  
FAX: 239-561-1025 • WWW.CRYSTEK.COM

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