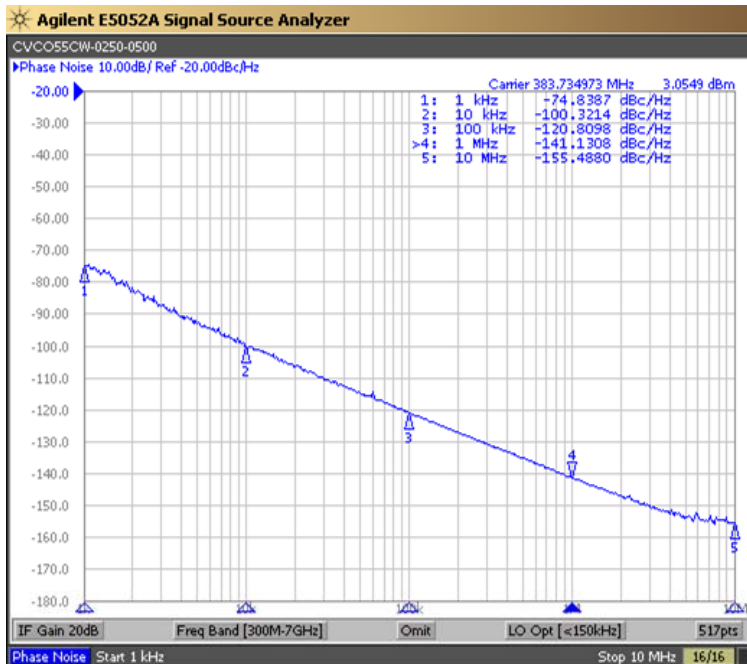


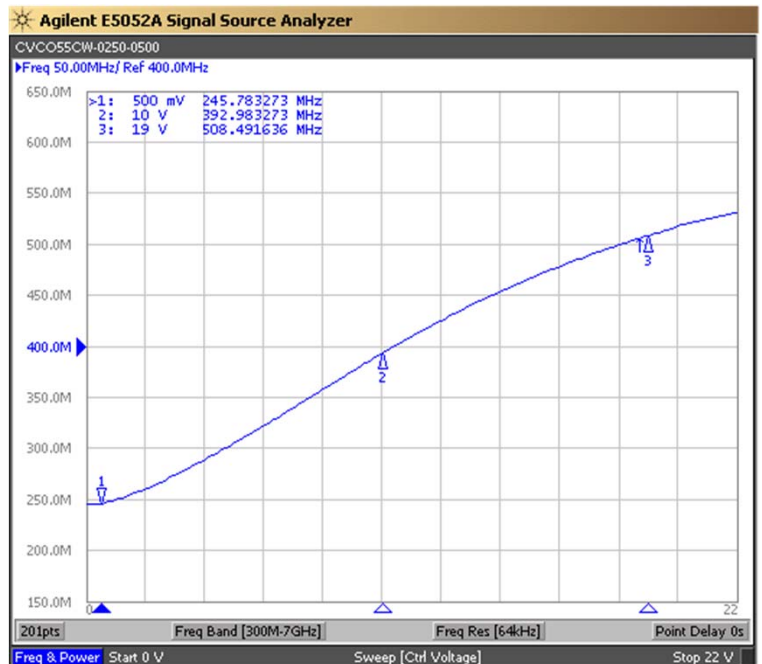


| PERFORMANCE SPECIFICATION                        | MIN   | TYP  | MAX   | UNITS        |
|--|-------|------|-------|--------------|
| Lower Frequency:                                 |       |      | 250   | MHz          |
| Upper Frequency:                                 | 500   |      |       | 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:                                  |       | 15   | 20    | 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   | $^{\circ}$ C |
| Storage Temperature Range:                       | -45   |      | +90   | $^{\circ}$ C |

Phase Noise (1 Hz BW, Typical)



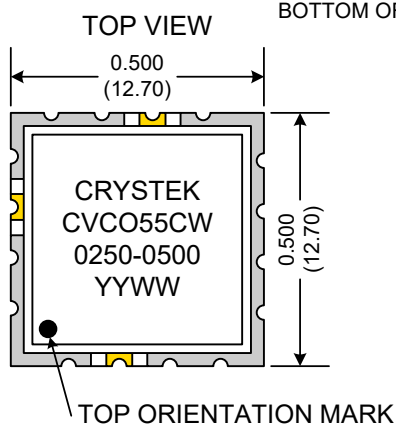
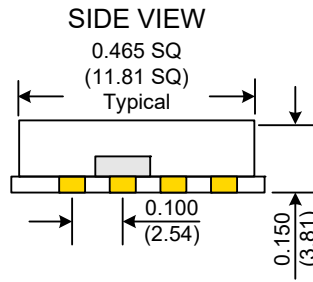
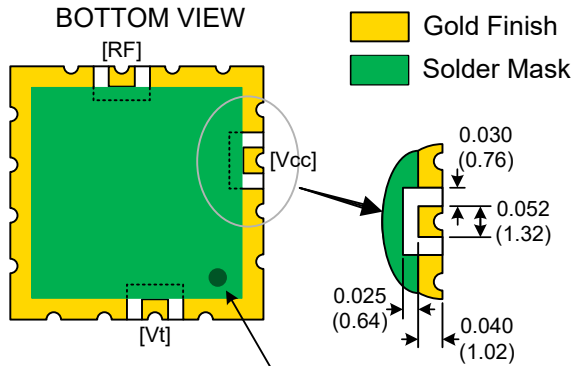
Tuning Curve (Typical)



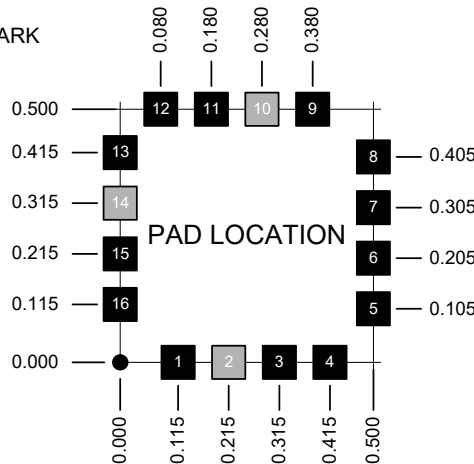
**Product Control:**

|                      |                    |               |             |
|----------------------|--------------------|---------------|-------------|
| Crystek Part Number: | CVCO55CW-0250-0500 | Release Date: | 01-Oct-2019 |
| Revision Level:      | J                  | Responsible:  | C. Vales    |





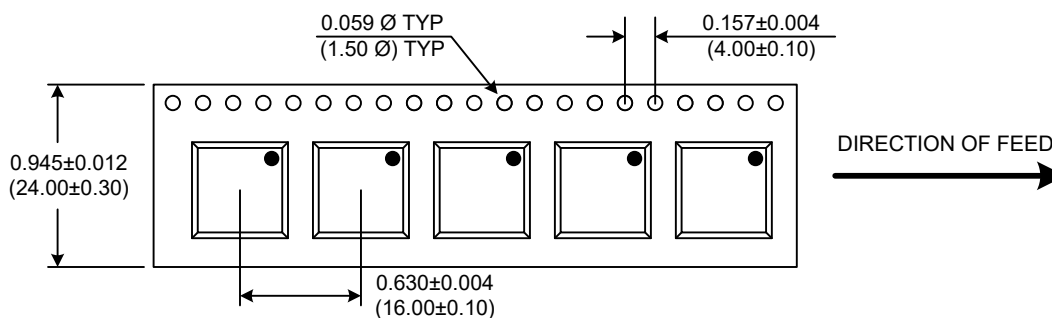
**BOTTOM ORIENTATION MARK**



| 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: | 01-Oct-2019 |
| Revision Level:      | J                  | Responsible:  | C. Vales    |

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