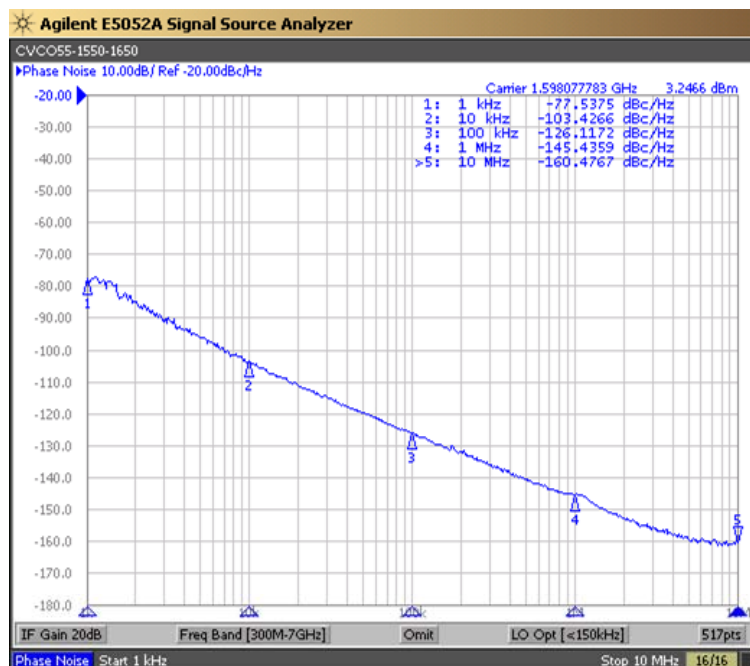
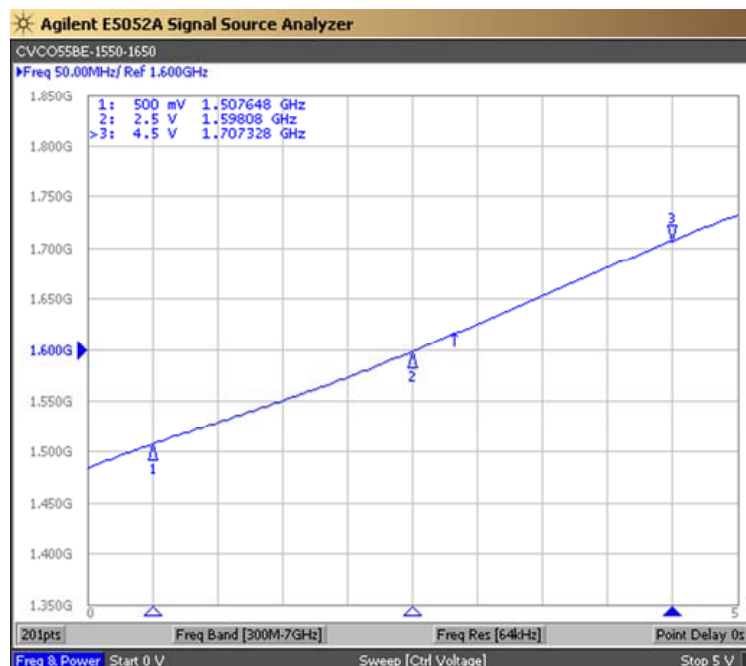


| PERFORMANCE SPECIFICATION                        | MIN  | TYP  | MAX  | UNITS     |
|--------------------------------------------------|------|------|------|-----------|
| Lower Frequency:                                 |      |      | 1550 | MHz       |
| Upper Frequency:                                 | 1650 |      |      | MHz       |
| Tuning Voltage:                                  | 0.5  |      | 4.5  | VDC       |
| Supply Voltage:                                  | 4.75 | 5.0  | 5.25 | VDC       |
| Output Power:                                    | 0    | +3.0 | +6.0 | dBm       |
| Supply Current:                                  | 14   | 17   | 20   | mA        |
| Harmonic Suppression (2 <sup>nd</sup> Harmonic): |      | -15  | -10  | dBc       |
| Pushing:                                         |      | 1.0  | 3.0  | MHz/V     |
| Pulling, all Phases:                             |      | 4.0  | 6.0  | MHz pk-pk |
| Tuning Sensitivity:                              |      | 45   |      | MHz/V     |
| Phase Noise @ 10kHz offset:                      |      | -102 | -98  | dBc/Hz    |
| Phase Noise @ 100kHz offset:                     |      | -122 | -118 | dBc/Hz    |
| Load Impedance:                                  |      | 50   |      | $\Omega$  |
| Input Capacitance:                               |      |      | 50   | pF        |
| Operating Temperature Range:                     | -40  |      | +85  | °C        |
| Storage Temperature Range:                       | -45  |      | +90  | °C        |

Phase Noise (1 Hz BW, Typical)



Tuning Curve (Typical)



### Product Control:

|                      |                    |               |             |
|----------------------|--------------------|---------------|-------------|
| Crystek Part Number: | CVCO55BE-1550-1650 | Release Date: | 01-Aug-2018 |
| Revision Level:      | F                  | Responsible:  | C. Vales    |

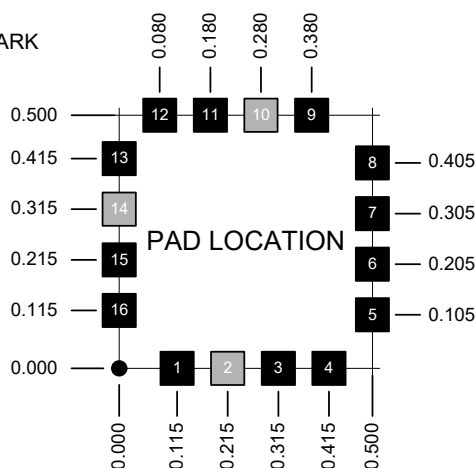
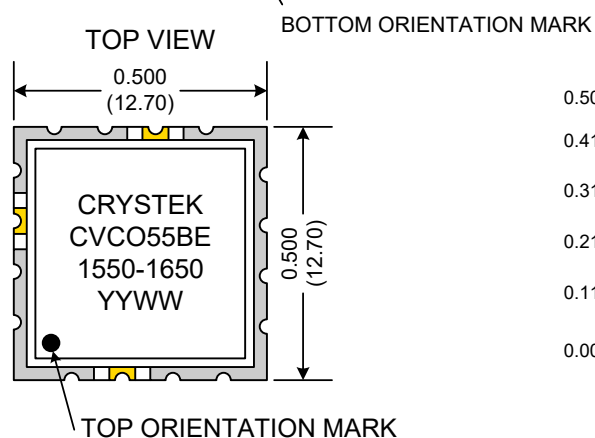
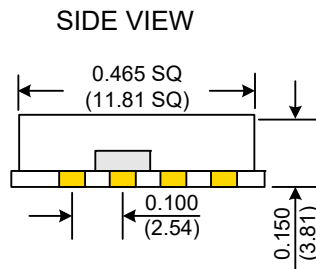
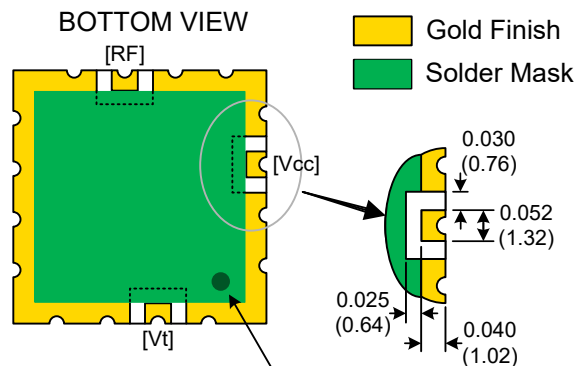




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# Voltage Controlled Oscillator-VCO

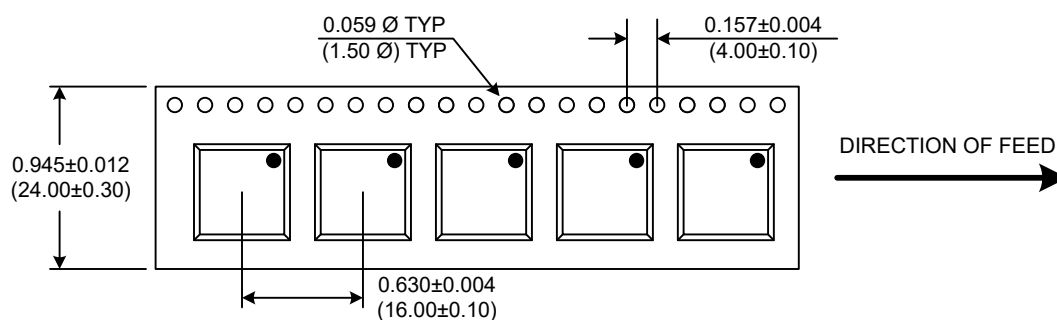
## CVCO55BE-1550-1650



| 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: | CVCO55BE-1550-1650 | Release Date: | 01-Aug-2018 |
| Revision Level:      | F                  | Responsible:  | C. Vales    |

Specification is subject to change without notice

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