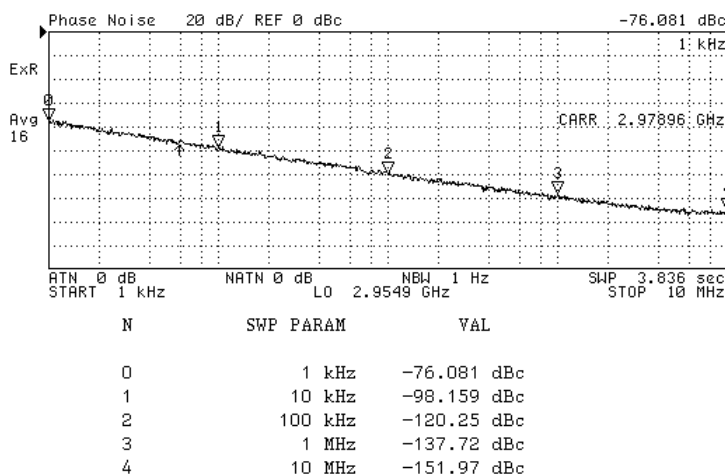


# Voltage Controlled Oscillator-VCO CVCO55BE-2130-2220

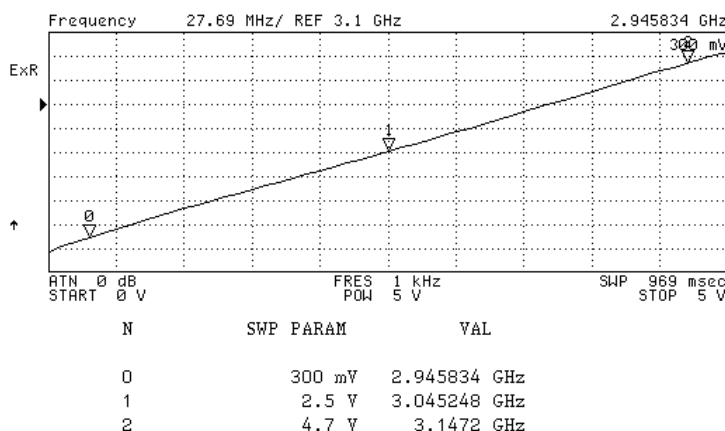


| PERFORMANCE SPECIFICATION                        | MIN  | TYP  | MAX  | UNITS              |
|--------------------------------------------------|------|------|------|--------------------|
| Lower Frequency:                                 |      |      | 2130 | MHz                |
| Upper Frequency:                                 | 2220 |      |      | MHz                |
| Tuning Voltage:                                  | 0.5  |      | 4.5  | VDC                |
| Supply Voltage:                                  | 4.75 | 5.0  | 5.25 | VDC                |
| Output Power:                                    | -2.0 | 0    | +2.0 | dBm                |
| Supply Current:                                  |      | 15   | 25   | mA                 |
| Harmonic Suppression (2 <sup>nd</sup> Harmonic): |      | -12  | -10  | dBc                |
| Pushing:                                         |      | 3.0  | 5.0  | MHz/V              |
| Pulling, all Phases:                             |      |      | 7.0  | MHz pk-pk          |
| Tuning Sensitivity:                              |      | 35   |      | MHz/V              |
| Phase Noise @ 10kHz offset:                      |      | -101 | -98  | dBc/Hz             |
| Phase Noise @ 100kHz offset:                     |      | -125 |      | dBc/Hz             |
| Load Impedance:                                  |      | 50   |      | $\Omega$           |
| Input Capacitance:                               |      |      | 20   | pF                 |
| Operating Temperature Range:                     | -40  |      | +85  | $^{\circ}\text{C}$ |
| Storage Temperature Range:                       | -45  |      | +90  | $^{\circ}\text{C}$ |

## Phase Noise (1 Hz BW, Typical)

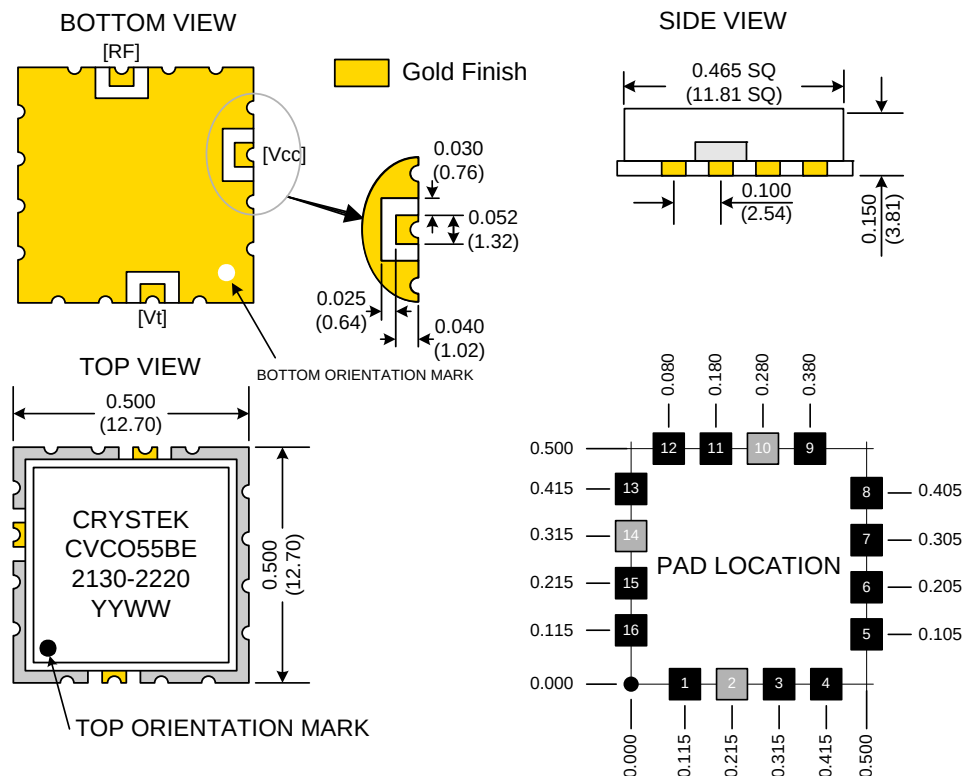


## Tuning Curve (Typical)

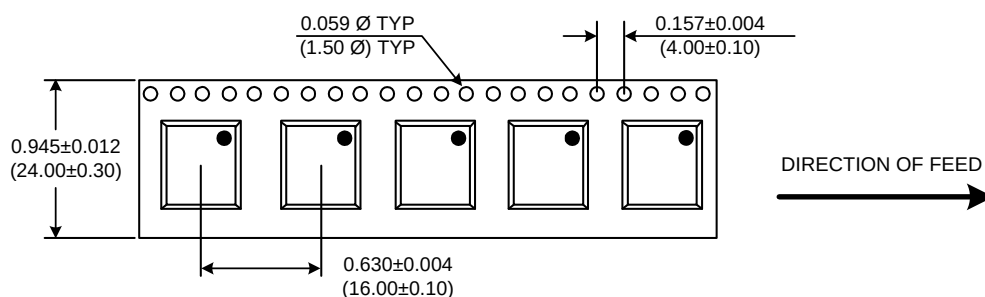


# Voltage Controlled Oscillator-VCO

## CVCO55BE-2130-2220



### TAPE AND REEL



Drawing not to scale

#### Product Control:

|                      |                    |               |           |
|----------------------|--------------------|---------------|-----------|
| Crystek Part Number: | CVCO55BE-2130-2220 | Release Date: | 11-Feb-08 |
| Revision Level:      | C                  | Responsible:  | C. Vales  |

Specification is subject to change without notice

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