

| PERFORMANCE SPECIFICATION                        | MIN  | TYP  | MAX  | UNITS     |
|--------------------------------------------------|------|------|------|-----------|
| Lower Frequency:                                 |      |      | 2100 | MHz       |
| Upper Frequency:                                 | 2200 |      |      | MHz       |
| Tuning Voltage:                                  | 0.5  |      | 4.5  | VDC       |
| Supply Voltage:                                  | 4.75 | 5.0  | 5.25 | VDC       |
| Output Power:                                    | -3.0 | 0    | +3.0 | dBm       |
| Supply Current:                                  |      |      | 25   | mA        |
| Harmonic Suppression (2 <sup>nd</sup> Harmonic): |      | -15  |      | dBc       |
| Pushing:                                         |      | 1.0  | 2.0  | MHz/V     |
| Pulling, all Phases:                             |      | 11.0 | 13.0 | MHz pk-pk |
| Tuning Sensitivity:                              |      | 55   |      | MHz/V     |
| Phase Noise @ 10kHz offset:                      |      | -101 |      | dBc/Hz    |
| Phase Noise @ 100kHz offset:                     |      | -120 |      | dBc/Hz    |
| Load Impedance:                                  |      | 50   |      | $\Omega$  |
| Input Capacitance:                               |      |      | 15   | pF        |
| Operating Temperature Range:                     | -40  |      | +85  | °C        |
| Storage Temperature Range:                       | -45  |      | +90  | °C        |

### Special Features:

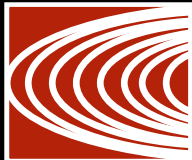
- No Internal Wire Bonds
- Resistance Welded for Hermetic Seal
- Low Phase Noise
- Gold Plated Pins



#### Product Control:

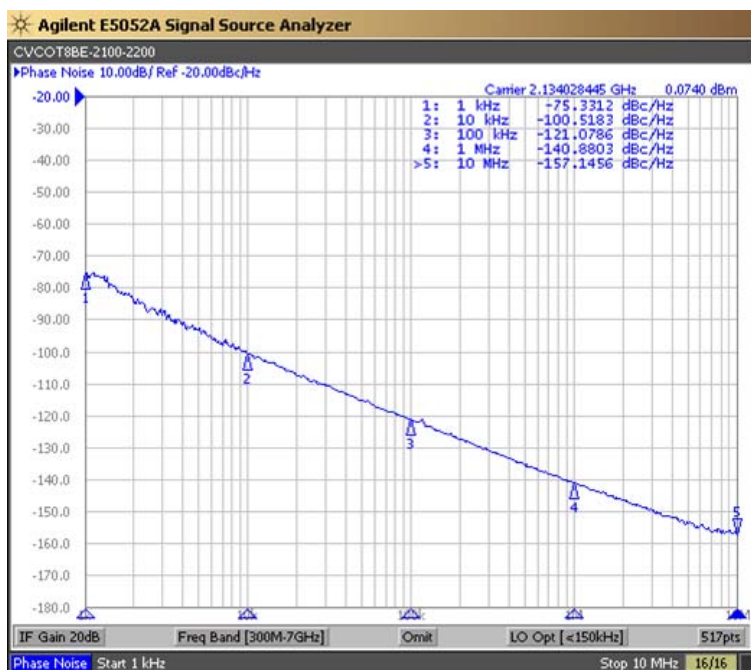
|                      |                    |               |             |
|----------------------|--------------------|---------------|-------------|
| Crystek Part Number: | CVCOT8BE-2100-2200 | Release Date: | 16-Aug-2019 |
| Revision Level:      | D                  | Responsible:  | C. Vales    |



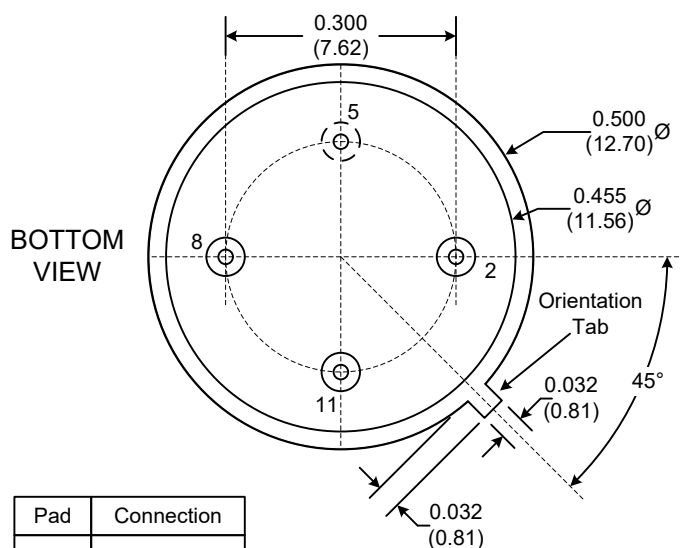
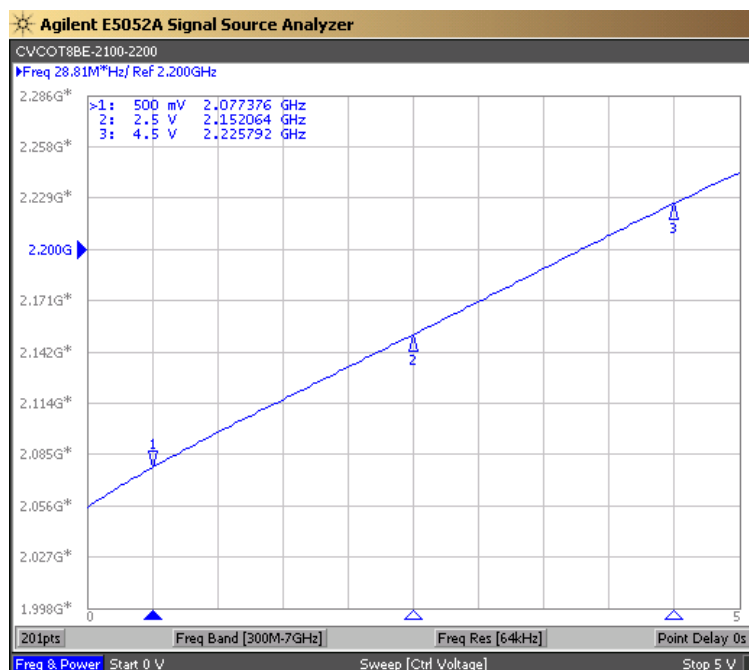


## Hermetic TO-8 VCO CVCOT8BE-2100-2200

### Phase Noise (1 Hz BW, Typical)



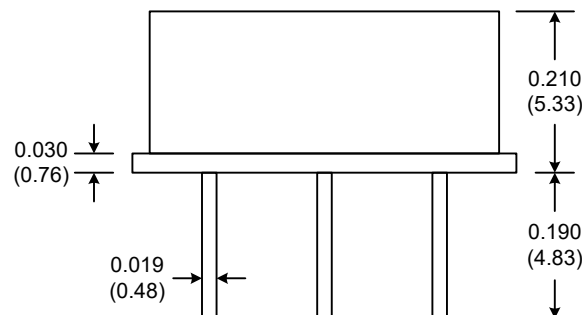
### Tuning Curve (Typical)



| Pad | Connection |
|-----|------------|
| 2   | RF-OUTPUT  |
| 5   | GROUND     |
| 8   | Vt         |
| 11  | Vcc        |

- Unless otherwise specified, Dimensions are in: IN (mm)

- Orientation determined by tab, not by marking



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|                      |                    |               |             |
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