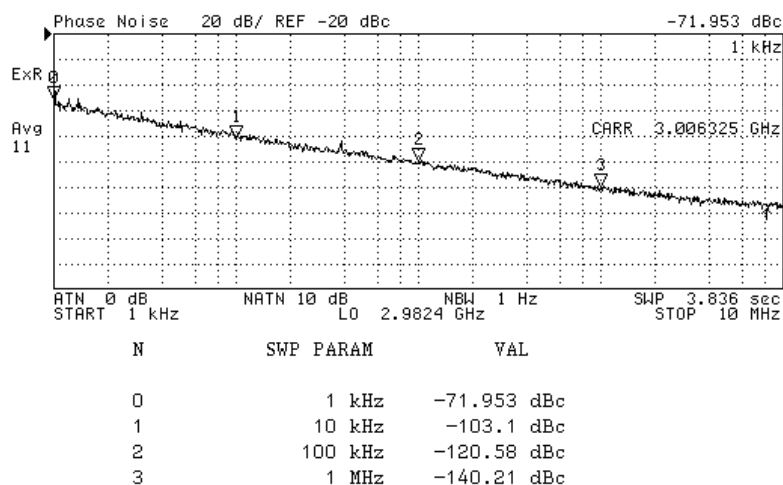
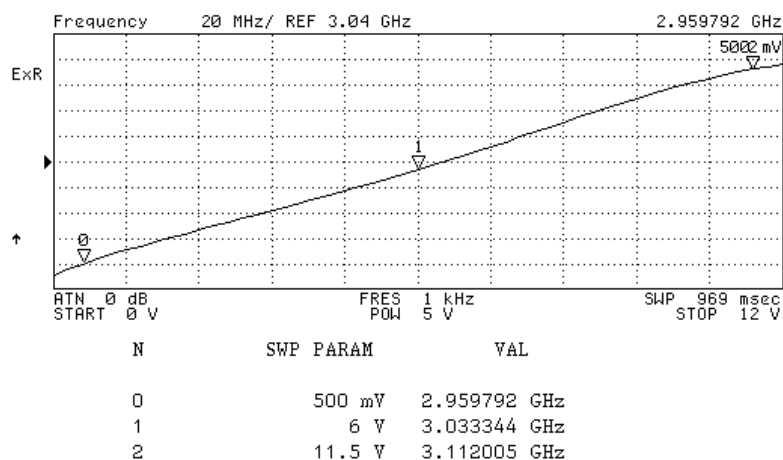


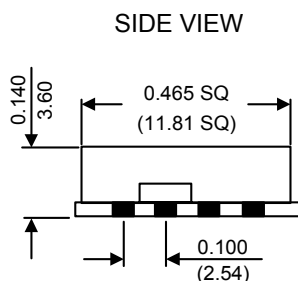
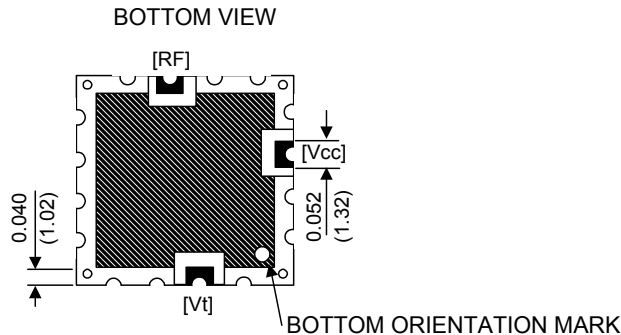
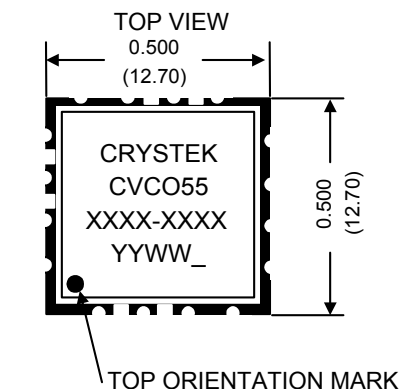
| AVAILABLE PERFORMANCE SPECIFICATION  | MIN  | TYP  | MAX  | UNITS              |
|--------------------------------------|------|------|------|--------------------|
| Lower Frequency:                     |      |      | 3000 | MHz                |
| Upper Frequency:                     | 3100 |      |      | MHz                |
| Tuning Voltage:                      | 0.5  |      | 11.5 | VDC                |
| Supply Voltage:                      | 4.75 | 5.0  | 5.25 | VDC                |
| Output Power:                        | +2   | +5   | +8   | dBm                |
| Supply Current:                      |      | 17   | 25   | mA                 |
| Harmonic Suppression (2nd Harmonic): |      | -15  | -10  | dBc                |
| Pushing:                             |      | 3    | 5    | MHz/V              |
| Pulling, all Phases:                 |      | 6    | 8    | MHz                |
| Tuning Sensitivity:                  |      | 23   |      | MHz/V              |
| Phase Noise: @ 10kHz offset:         |      | -101 | -98  | dBc/Hz             |
| Load Impedance:                      |      | 50   |      | $\Omega$           |
| Load Capacitance:                    |      |      | 30   | pF                 |
| Operating Temperature Range:         | -40  |      | +85  | $^{\circ}\text{C}$ |

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

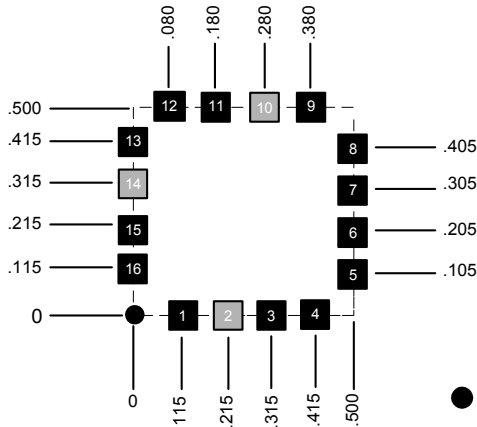


### Tuning Curve, Typical



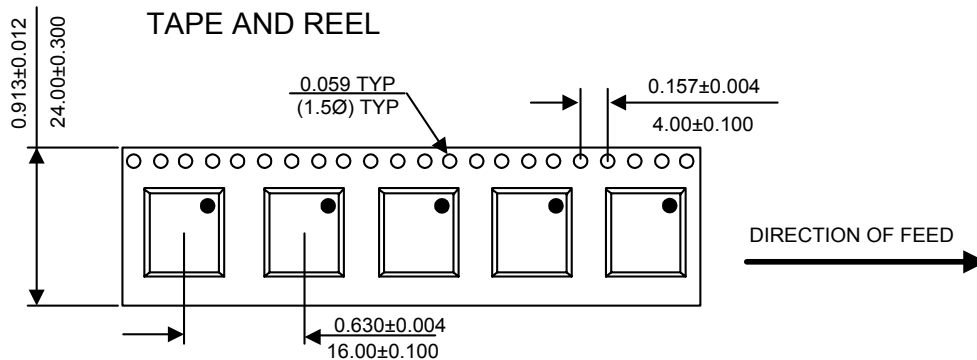


### RECOMMENDED SOLDER PATTERN



| Pad    | Connection |
|--------|------------|
| 2      | Vt         |
| 10     | RF-OUTPUT  |
| 14     | Vcc        |
| Others | GROUND     |

- Unless otherwise specified, Dimensions are in: IN (mm)
- Recommended Solder Pattern dimension are in: Inches



Drawing not to scale

| Product Control:     |                    |               |           |
|----------------------|--------------------|---------------|-----------|
| Crystek Part Number: | CVCO55BE-3000-3100 | Release Date: | 17-Mar-04 |
| Revision Level:      | A                  | Responsible:  | C. Vales  |