



# VCTCXO I702 Series

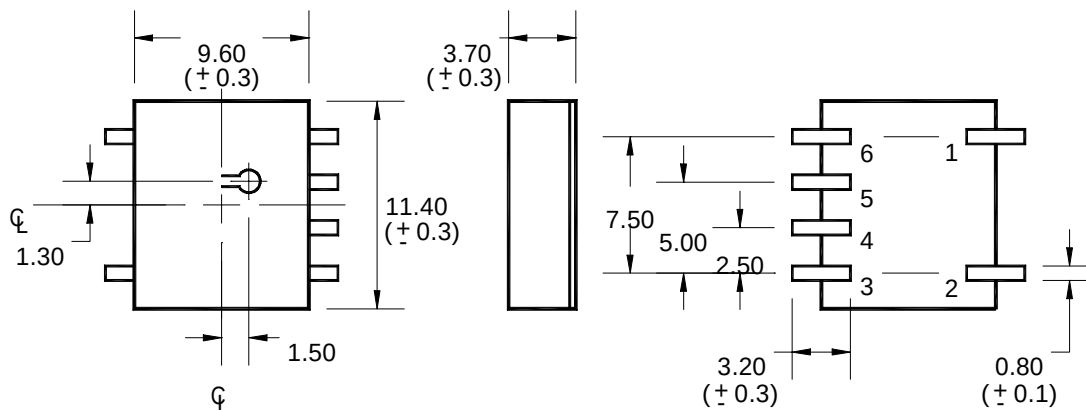
# SMD 9 x 11 Clipped Sine Wave

|                              |                                 |                       |
|------------------------------|---------------------------------|-----------------------|
| Frequency                    | 10.000 MHz ~ 27.000 MHz         |                       |
| Output Level                 | Clipped Sine Wave               |                       |
|                              | +3.0 V Supply                   | +5.0 V Supply         |
| Level                        | 0.7 Vp-p Min                    | 1.0 Vp-p Min          |
| Output Load                  | 20 K ohms/5 pF                  |                       |
| Stability                    |                                 |                       |
| Frequency vs. Temperature    | See Table Frequency Stability   |                       |
| Frequency vs. Supply Voltage | $\pm 0.5$ ppm Max $\pm 5\%$     |                       |
| Frequency vs. Load           | $\pm 0.3$ ppm Max               |                       |
| Aging @ 25°C                 | $\pm 1.0$ ppm/year Max          |                       |
| Mechanical Adjustment Range  | $\pm 3$ ppm Min                 |                       |
| Control Voltage              | 1.5 Vdc $\pm 1.0$ Vdc           | 2.5 Vdc $\pm 2.0$ Vdc |
| Voltage Control Range        | $\pm 5$ ppm Min                 | $\pm 15$ ppm Min.     |
| Slope                        | Positive                        |                       |
| Supply Voltage               | 3.0Vdc $\pm 5\%$                | 5.0Vdc $\pm 5\%$      |
| Current                      | 3.0 mA Max                      | 3.0 mA Max            |
| Temperature                  |                                 |                       |
| Operating                    | See Table Operating Temperature |                       |
| Storage                      | -40°C to +85°C                  |                       |

|                   |      | Frequency Stability in $\pm$ ppm |     |     |     |     |     |     |     | ** Indicates Availability |
|-------------------|------|----------------------------------|-----|-----|-----|-----|-----|-----|-----|---------------------------|
| Operating         |      | 1.5                              | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 |                           |
| Temperature Range | Code | O                                | P   | Q   | R   | S   | T   | U   | J   |                           |
| 0°C ~ +50°C       | 7    | **                               | **  | **  | **  | **  | **  | **  | **  |                           |
| -10°C ~ +60°C     | 8    | **                               | **  | **  | **  | **  | **  | **  | **  |                           |
| -10°C ~ +70°C     | 6    |                                  | **  | **  | **  | **  | **  | **  | **  |                           |
| -20°C ~ +70°C     | 3    |                                  | **  | **  | **  | **  | **  | **  | **  |                           |
| -30°C ~ +60°C     | 11   |                                  |     | **  | **  | **  | **  | **  | **  |                           |
| -30°C ~ +70°C     | 10   |                                  |     | **  | **  | **  | **  | **  | **  |                           |
| -30°C ~ +75°C     | 4    |                                  |     | **  | **  | **  | **  | **  | **  |                           |
| -40°C ~ +80°C     | 5    |                                  |     |     |     | **  | **  | **  | **  |                           |

| Part Number Guide |                   | Sample Part #: I702-7P3-20.000 |                        |            |
|-------------------|-------------------|--------------------------------|------------------------|------------|
|                   | Temperature Range | Frequency Stability            | Supply Voltage         | Frequency  |
| I702              | 7 = 0°C ~ +50°C   | P = $\pm 2.0$ ppm              | 3=3.3 Vdc or 5=5.0 Vdc | 20.000 MHz |

DIMENSION UNITS: mm



| PIN | CONNECTIONS |
|-----|-------------|
| 1   | CASE GROUND |
| 2   | CASE GROUND |
| 3   | OUTPUT      |
| 4   | GROUND      |
| 5   | V CONTROL   |
| 6   | Vcc         |

