

The VC-TXO-39SM is a VC (Voltage Controlled) TCXO (Temperature Compensated Crystal Oscillator) featuring very tight stability over a wide temperature range. The small SMD ceramic package measures 11.4 x 9.6 x 2.3 mm. The voltage control has a tuning range of ± 12 ppm typical. The low profile package is ideal for wireless communications applications.

FEATURES

- Highly stable output
- Wide temperature range
- Voltage control function
- Tape and Reel (500 pcs)

PART NUMBERING GUIDE

| SERIES | FREQUENCY | STABILITY / TEMPERATURE OPTION |
|-------------|-----------|--------------------------------|
| VC-TXO-39SM | - 128 | - A |

Sample Part Number: VC-TXO-39SM-128-A, 128=12.8 MHz, A= ± 1.5 ppm -20 to +75°C

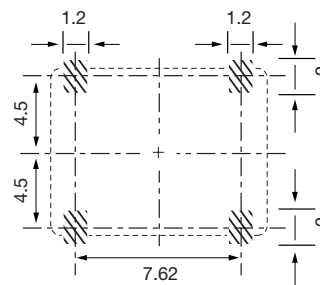
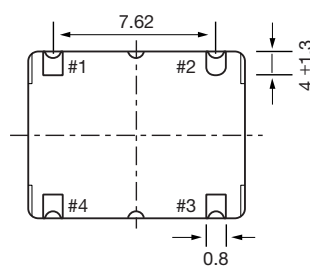
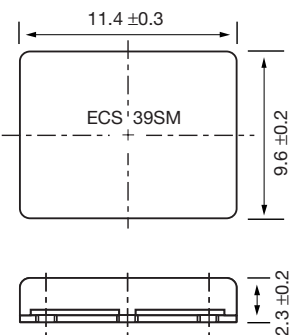
STANDARD FREQUENCIES

10.000, 13.000, 16.800 AND 19.440 MHz

OPERATING CONDITIONS/ELECTRICAL CHARACTERISTICS

| PARAMETERS | CONDITIONS | ECS-3955C (5V) | | | UNITS |
|--------------------------|---|----------------|----------|-----------|-------|
| | | MIN | TYP | MAX | |
| FREQUENCY RANGE | | 10.000 | | 19.440 | MHz |
| FREQUENCY STABILITY/TEMP | Operating Temperature | | | | |
| STANDARD | -30 ~ +75°C | | | ± 2.5 | PPM |
| OPTION A | -20 ~ +75°C | | | +1.5 | PPM |
| SUPPLY VOLTAGE CHANGE | +3V $\pm 5\%$ | | | +0.3 | PPM |
| LOAD CHANGE | 10k Ω $\pm 10\%$ / 10pF $\pm 10\%$ | | | +0.3 | PPM |
| AGING | First Year @ +25°C | | | ± 1 | PPM |
| STORAGE TEMPERATURE | | -40 | | +85 | °C |
| SUPPLY VOLTAGE | +3.0 V DC Nominal | +2.85 | +3.0 | +3.15 | V DC |
| CURRENT CONSUMPTION | 10k Ω $\pm 10\%$ / 10pF $\pm 10\%$ | | | 1.5 | mA |
| OUTPUT VOLTAGE | Clipped sine wave (DC-Cut) | 0.8 | | | Vp-p |
| OUTPUT LOAD | 10k Ω $\pm 10\%$ / 10pF $\pm 10\%$ | | | | |
| FREQUENCY CONTROL RANGE | +1.5 V DC ± 1 V Positive Slope | ± 9 | ± 12 | | PPM |
| CONTROL VOLTAGE | | +0.5 | +1.5 | +2.5 | V |

PACKAGE DIMENSIONS (mm)



| PIN CONNECTIONS | |
|-----------------|----------|
| #1 | VCONTROL |
| #2 | GND |
| #3 | OUTPUT |
| #4 | VCC |

Figure 1) VC-TXO-36SM Top, Side and Bottom views

Figure 2) Land Pattern