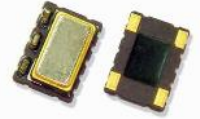


CERAMIC SMD TCXO / VCTCXO (7.0 x 5.0 x 1.9mm)
FEATURES

- HIGH PRECISION UP TO $\pm 0.2\text{ppm}$
- COMPACTNESS AND LIGHT WEIGHT
- LOW POWER CONSUMPTION

APPLICATION:

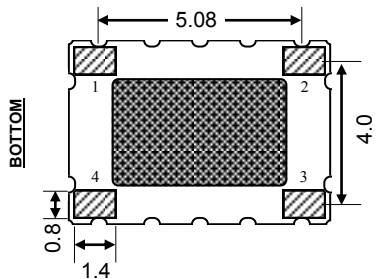
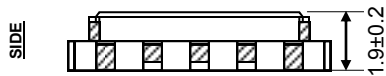
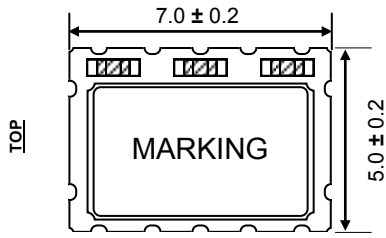
- Femtocell, Base Station
- WLAN/WiMAX/Wi-Fi, Wireless Communications
- Mobile Phone


■ SPECIFICATION

| PARAMETER | | MIN. | TYP. | MAX. | UNIT | NOTE | |
|-----------------------------|----------------------------------|--|----------------------|------------|----------------------|---------------------------------|----------|
| FREQUENCY RANGE | | 5 | | 40 | MHz | | |
| STANDARD FREQUENCIES | | 10M, 12.8M, 16M, 16.384M, 19.2M, 19.44M, 20M, 25M, 26M | | | | | |
| FREQUENCY TOLERANCE | | | | ± 2.0 | ppm | | |
| FREQUENCY STABILITY | vs. TEMPERATURE RANGE | ± 0.05 | | ± 0.28 | ppm | See P/N guide for other options | |
| | vs. LOAD $\pm 10\%$ | | | ± 0.05 | ppm | | |
| | vs. SUPPLY VOLTAGE $\pm 5\%$ | | | ± 0.1 | ppm | | |
| | vs. AGING | | | ± 1.0 | ppm | | |
| OPERATING TEMPERATURE RANGE | | -40 | | 85 | $^{\circ}\text{C}$ | See P/N guide for other options | |
| STORAGE TEMPERATURE RANGE | | -55 | | 125 | $^{\circ}\text{C}$ | | |
| SUPPLY VOLTAGE $\pm 5\%$ | | 3.3 | | 5.0 | V | | |
| SUPPLY CURRENT | CMOS | | | 6 | mA | | |
| | CSW | | | 3.5 | mA | | |
| OUTPUT | LOAD | CMOS | 15pF | | | | |
| | | CSW | 10k Ω //10pF | | | | |
| | LEVEL | CMOS (V_{OH}) | $V_{DD} \times 0.90$ | | | V | |
| | | CMOS (V_{OL}) | | | $V_{DD} \times 0.10$ | V | |
| | | CSW | 0.8 | | | V_{P-P} | |
| | SYMMETRY (DUTY CYCLE) | | 45 | | 55 | % | For CMOS |
| | RISE AND FALL TIME (T_r/T_f) | | | | 10 | nS | For CMOS |
| | START-UP TIME | | | | 2.0 | mS | |
| FREQUENCY DEVIATION | | ± 5.0 | | | ppm | See P/N guide for other options | |
| CONTROL VOLTAGE | | 0.5 | | 2.5 | V | | |
| V_c INPUT IMPEDANCE | | 100 | | | k Ω | | |
| PHASE NOISE | 100Hz | | -130 | | dBc/Hz | @ 12.8MHz | |
| | 1kHz | | -145 | | dBc/Hz | | |
| | 10kHz | | -154 | | dBc/Hz | | |

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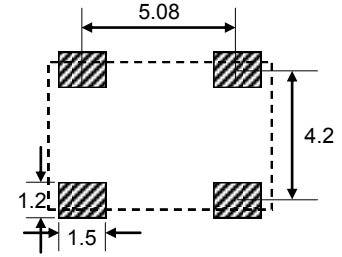
■ PACKAGE DIMENSIONS



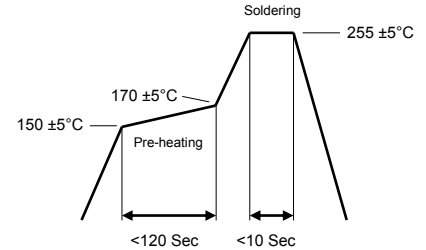
Unit : mm

| Pad Connections | |
|-----------------|-------------------------|
| 1 | V _C : VCTCXO |
| | GND/NC: TCXO |
| 2 | GND |
| 3 | Output |
| 4 | V _{DD} |

■ SOLDER PATTERN

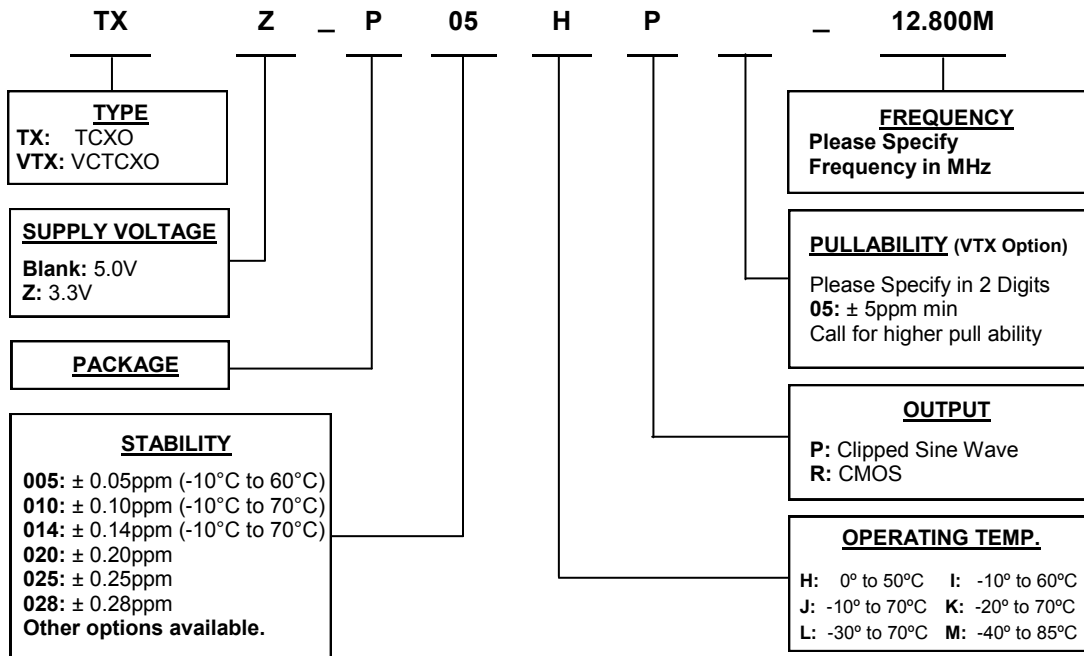


■ REFLOW PROFILE



Note: Consult factory for detail

■ PART NUMBERING GUIDE



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