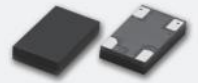


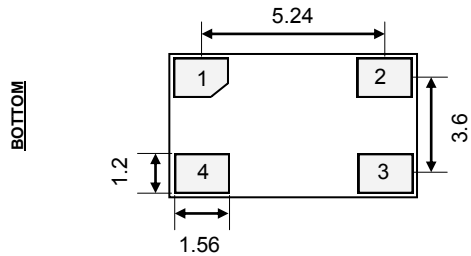
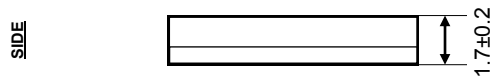
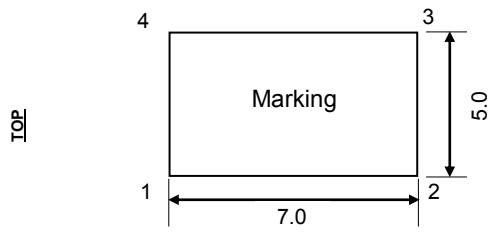
TCXO/VCTCXO SMD (7.0 x 5.0 x 1.7mm)
FEATURES:

- EPOXY RESIN COVER
- GLASS EPOXY BASE
- SUITABLE FOR REFLOW


■ SPECIFICATION

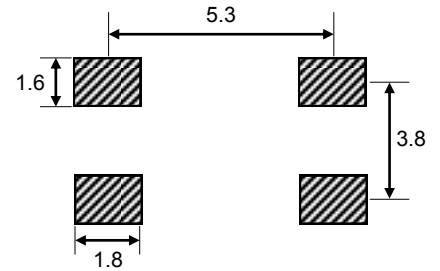
| PARAMETER | | MIN. | TYP. | MAX. | UNIT | NOTE | |
|-----------------------------|----------------------------|---|--------------------------|-------|-----------------------|--|----------------------------------|
| FREQUENCY RANGE | | 10 | | 40 | MHz | | |
| STANDARD FREQUENCIES | | 10.0000M, 13.000M, 16.367667M, 16.368M, 16.369M, 163.800M, 19.200M, 20.000M, 23.104M, 24.5536M, 25.000M, 26.000M, 38.400M | | | | | |
| FREQUENCY TOLERANCE | | | | ±1.5 | ppm | @ 25°C ± 2°C | |
| FREQUENCY STABILITY | vs. TEMPERATURE RANGE | ±0.5 | | ±2.0 | ppm | See P/N guide for other options | |
| | vs. LOAD ± 10% | | | ±0.2 | ppm | | |
| | vs. SUPPLY VOLTAGE ± 5% | | | ±0.2 | ppm | | |
| | vs. AGING | | | ±1.0 | ppm/year | @ 25°C ± 3°C | |
| OPERATING TEMPERATURE RANGE | | -40* | | +85 | °C | See P/N guide for other options * Frequency dependent | |
| STORAGE TEMPERATURE RANGE | | -55 | | +125 | °C | | |
| SUPPLY VOLTAGE ±5% | | 1.8 | | 3.3 | V | See P/N guide for other options | |
| SUPPLY CURRENT | CMOS | 10 ~ 30M | | 4.0 | mA | | |
| | | 30 ~ 40M | | 6.0 | mA | | |
| | CSW | | | 2.0 | mA | | |
| OUTPUT | LOGIC FAMILY | | CMOS / Clipped Sine wave | | | | |
| | LOAD | CMOS | 15pF | | | | |
| | | CSW | 10kΩ//10pF | | | | |
| | LEVEL | CMOS (V _{OH}) | 0.9 x V _{DD} | | | V | |
| | | CMOS (V _{OL}) | | | 0.1 x V _{DD} | V | |
| | | CSW | 0.8 | | | V _{P-P} | |
| | SYMMETRY (DUTY CYCLE) | | 40 | | 60 | % | For CMOS |
| | RISE AND FALL TIME (Tr/Tf) | | | | 10 | nS | For CMOS (10% ~ 90% of waveform) |
| START-UP TIME | | | | 10 | mS | | |
| FREQUENCY DEVIATION | 1.8V | ±8.0 | | ±13.0 | ppm | See P/N guide for other options | |
| | 2.5V, 3.3V | ±9.0 | | ±15.0 | ppm | | |
| CONTROL VOLTAGE | 1.8V | 0.1 | | 1.7 | V | | |
| | 2.5V | 0.25 | | 2.25 | V | | |
| | 3.3V | 0.65 | | 2.65 | V | | |
| SLOPE | | Positive | | | | | |
| PHASE NOISE | 1kHz | | -133 | | dBc/Hz | @ 26MHZ | |

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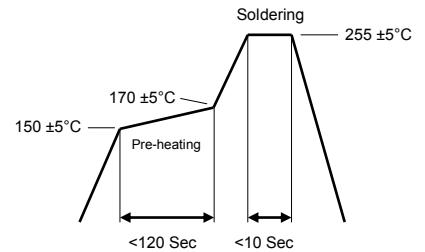
■ PACKAGE DIMENSIONS


Unit : mm

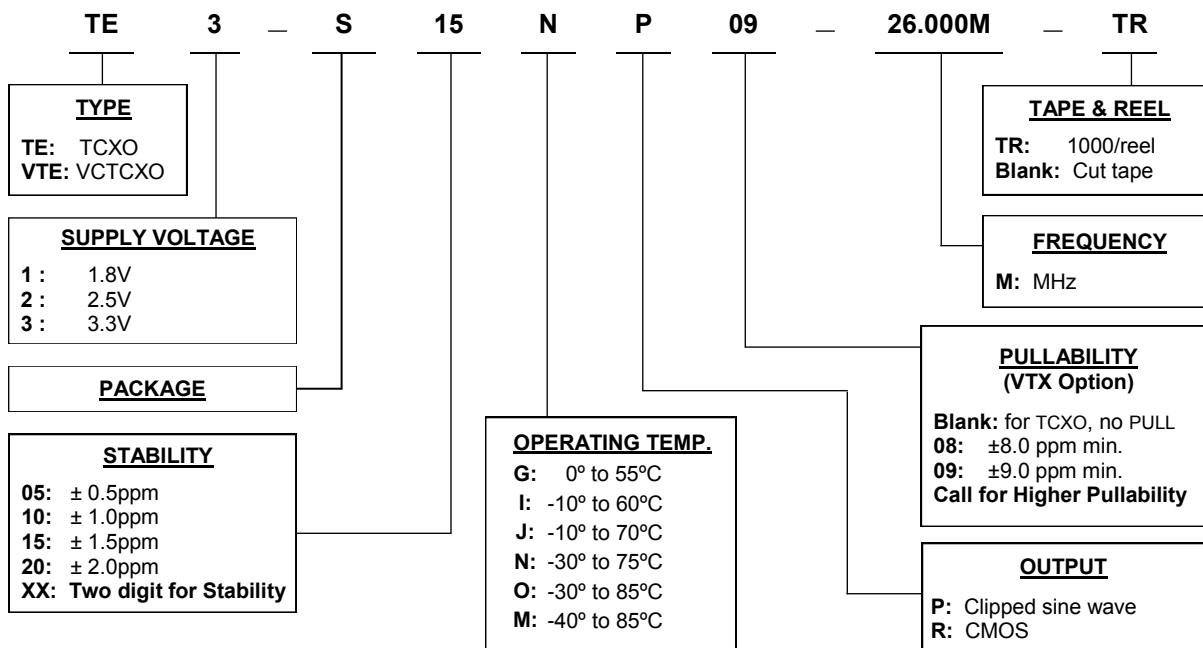
| Pin Configuration | |
|-------------------|-----------------|
| 1 | N/C or Vc |
| 2 | GND |
| 3 | Output |
| 4 | V _{DD} |

■ SOLDER PATTERN


Unit :mm

■ REFLOW PROFILE


Note: Consult factory for detail

■ PART NUMBERING GUIDE


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