

MTSS Series – 3.2 X 2.5 Ceramic SMD VCTCXO



- Low Profile SMD Device
- Hermetically Sealed
- Tight Stability Over Temperature
- Excellent Phase Noise



| | | |
|-------------------------------------|--|--------------------------------------|
| Frequency Range | 14.400MHZ TO 32.734MHZ | |
| Frequency Stability vs Temperature* | (See Frequency Stability vs Temperature Table) | |
| Operating Temperature Range | (See Frequency Stability vs Temperature Table) | |
| Storage Temperature Range | -40°C to +85°C | |
| Aging | ±1.0 per year | |
| Supply Voltage | +2.80VDC | +3.00VDC |
| Supply Current | 2mA max | |
| Output Type | Clipped Sinewave | |
| Output Level | 0.8 Vp-p min | |
| Output Load | 10k Ohms//10pF | |
| Control Voltage | Vc = +1.40VDC +0.40VDC to +2.40VDC | Vc = +1.5VDC +0.50VDC to +2.50VDC |
| Frequency Tuning Range | ±8 ppm to ±15 ppm | |
| Phase Noise | 100Hz | -115dBc/Hz |
| | 1kHz | -135dBc/Hz |
| | 10kHz | -145dBc/Hz |

* Inclusive of Temperature., Load and Voltage

Environmental & Mechanical Detail

| | |
|--------------------|---|
| Shock | MIL-STD-883, Method 2002, Condition B |
| Solderability | MIL-STD-883, Method 2003 |
| Solvent Resistance | MIL-STD-883, Method 215 |
| Vibration | MIL-STD-883, Method 2007, Condition A |
| Gross Leak Test | MIL-STD-883, Method 1014, Condition C |
| Fine Leak Test | MIL-STD-883, Method 1014, Condition A-2 |

Marking Detail

| | | |
|---|---|---|
| First Line = MXX.X (not to exceed 5 characters) | | |
| M | = | MMD |
| XX.X | = | Device Frequency (four digits including decimal point) |
| Second Line = SYWW (not to exceed 5 characters) | | |
| S | = | Internal Code |
| YYWW | = | Date Code (Year/Week) |

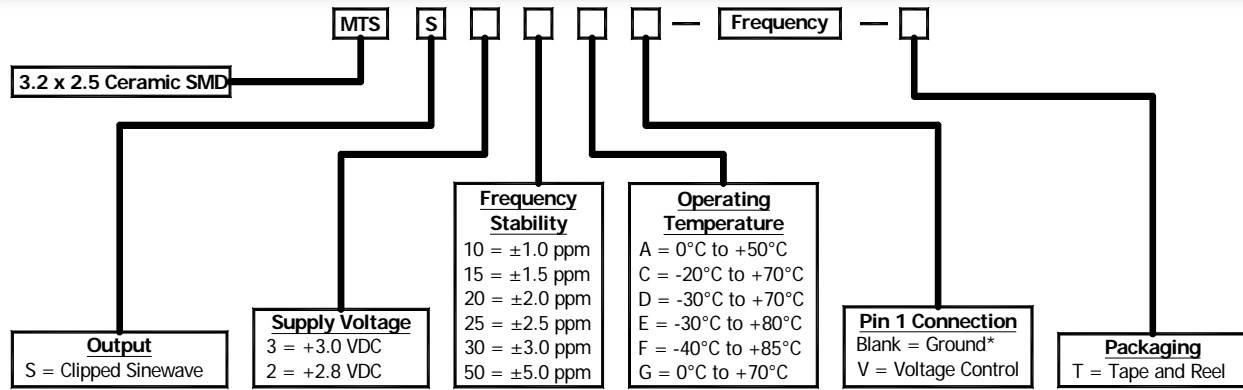


MMD Monitor/Quartztek
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 Phone: (949) 709-5075, Fax: (949) 709-3536, www.mmdcomp.com
 Sales@mmdcomp.com



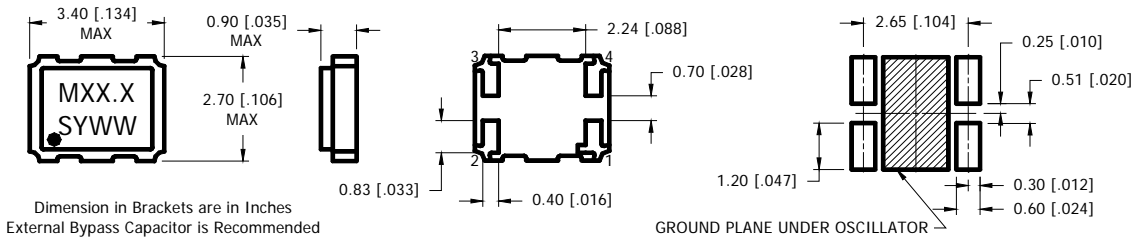
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Part Number Guide



Please Consult with MMD Sales Department for any other Parameters or Options

Mechanical Details

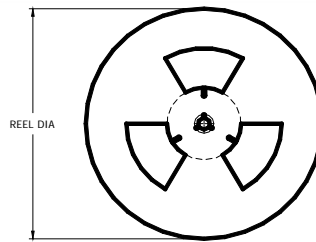
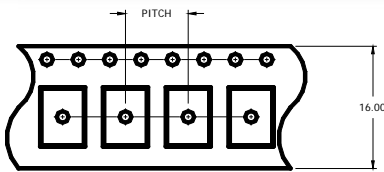


| PIN CONNECTIONS | |
|-----------------|-----------------|
| PIN 1 | VOLTAGE CONTROL |
| PIN 2 | GND |
| PIN 3 | OUTPUT |
| PIN 4 | SUPPLY VOLTAGE |

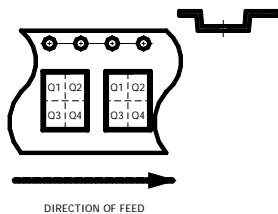
NOTE 1
IF VC OPTION IS NOT USED, THIS PIN MUST BE GROUNDED OR FREQUENCY WILL SHIFT.

Suggested Land Pattern

Tape & Reel Dimensions



| | |
|---------------|-------------|
| PITCH | 4.00 [.157] |
| TAPE WIDTH | 8.00 [.315] |
| REEL DIA | 180 [7.0] |
| COUNT | 1000 |
| PIN 1 ORIENT. | Q1 |



NOTES: UNLESS OTHERWISE SPECIFIED
1. Applicable Standards / Specifications
ANSI Y14.5M, Dimensions and Tolerances
EIA-481-B, 8 mm through 200mm Embossed Carrier Taping and 8 mm and 12 mm Punched Carrier Taping of Surface Mount Components for Automatic Handling.
2. Dimensions are in millimeters [inch].
3. Tolerances are ±0.1 [0.04] mm unless otherwise specified.
4. Do not scale drawing.



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