





Electrical Specifications:

| Parameter | Symbol | Min. | Тур. | Max. | Units | Conditions |
|------------------------|--------------------------------|-------------------------------|------------------|------------|-------|--|
| Frequency of Operation | Fo | | 156.250000 | | MHz | |
| | | Free | quency Stabil | lity | | |
| Frequency Stability | ∆F/F | -50 | | +50 | ppm | Includes initial tolerance @ +25°C, deviation over operating temperature, variations to supply voltage, load, vibration and shock. |
| Aging | | -5 | | +5 | ppm | 1 st year |
| | | | RF Output | | | |
| Output Type | | LV | PECL Compatik | ble | | |
| Output Load | | 50 | Ω to (Vcc-2.0) V | /DC | V | |
| Symmetry (duty cycle) | V _{OH} | 45 | | 55 | % | Ref. to 50% of waveform |
| Logic Level "1" | Vон | Vcc-1.025 | | Vcc-0.880 | V | |
| Logic Level "0" | T _{DC} | Vcc-1.810 | | Vcc-1.620 | V | |
| Rise/Fall Time | T _R /T _F | | 0.2 | 0.4 | nS | 20% to 80% of waveform |
| Start-up Time | Tsu | | | 10 | mS | T _{ambient} = +25°C |
| Enable Logic | | 80% V _{CC} or N/C | | | V | Pad 1: Output Enabled |
| Disable Logic | | | | 20% Vcc | V | Pad 1: Output Disabled to high-Z |
| | S | Supply Volta | ge & Power C | onsumption | n | |
| Operating Voltage | Vcc | 3.135 | 3.3 | 3.465 | V | |
| Supply Current | lcc | | | 57 | mA | |
| | <u>.</u> | Ot | ther Parameter | | | |
| Phase Jitter (RMS) | ΦJ | | | 0.100 | pS | 12KHz to 20MHz |

Enable/Disable Function:

| Pad 1 | Output Pad #4, #5 |
|-------------------------|---------------------------|
| High or Open | |
| 0.7Vcc Min | Output Enabled |
| 0.3 V _{cc} Max | Output Disabled to high-Z |

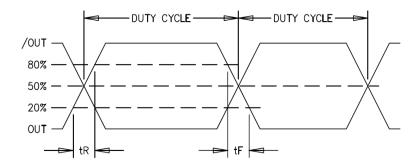
Enable Phase Delay = 2.0 mSec Max Disable Phase Delay = 200 nSec Max







Output Waveform:



Environmental & Packaging Requirements:

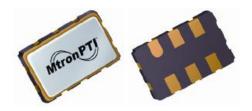
| Operating Temperature | TA | -40 | | +85 | S° | |
|-------------------------------------|---|--|---------------|---------------|----------------|-----------------------|
| Storage Temperature | Ts | -55 | | +125 | °C | |
| Mechanical Shock | Per MIL-S | TD-202, M | ethod 213, Co | ondition C (1 | 00 g's, 6 ms (| duration, ½ sinewave) |
| Vibration | Per MIL-S | Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz) | | | | |
| Thermal Cycle | Per MIL-S | TD-883, M | ethod 1010, E | 3 (-55°C to 1 | 25°C, 15 min | . dwell, 10 cycles) |
| Hermeticity | Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of Helium) | | | | | |
| Moisture Sensitivity Level (MSL) | MSL 1 | | | | | |
| Solderability | Per EIAJ- | STD-002 | | | | |
| Max. Soldering Conditions | See solder profile, Figure 1 | | | | | |
| Package Type | 6-pad 3.2 | X 5.0 X 1.4 | mm leadless | ceramic. Ro | oHS compliar | nt. |

Marking, Pin Out:

| Pad | Function |
|-----|----------------------|
| 1 | Enable/Disable |
| 2 | N/C |
| 3 | Ground |
| 4 | Output |
| 5 | Complimentary Output |
| 6 | +V _{cc} |

| Part Marking | | | |
|--------------|--------------|--|--|
| Line 1 | 156M250 | | |
| Line 2 | M (yy ww vv) | | |

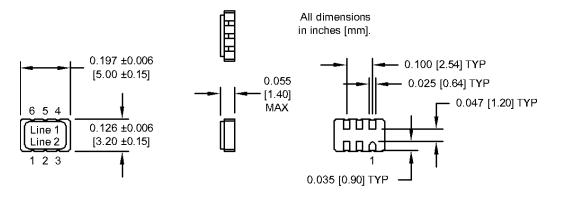
| Legend | | |
|--------|--------------|--|
| уу | Year | |
| ww | Work Week | |
| vv | Factory code | |

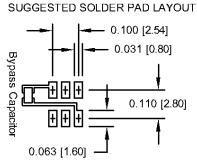




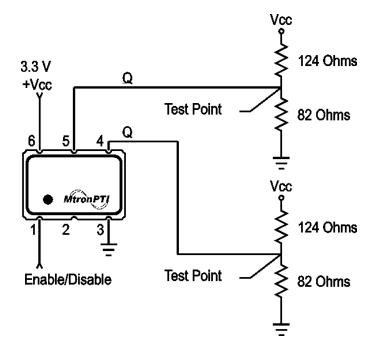


Dimensions:





Typical Test Circuit & Load Circuit Diagrams:

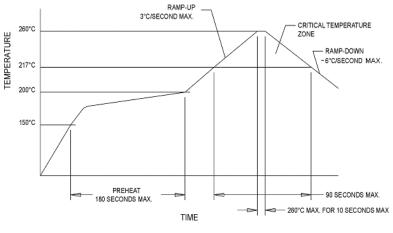


Soldering Conditions:



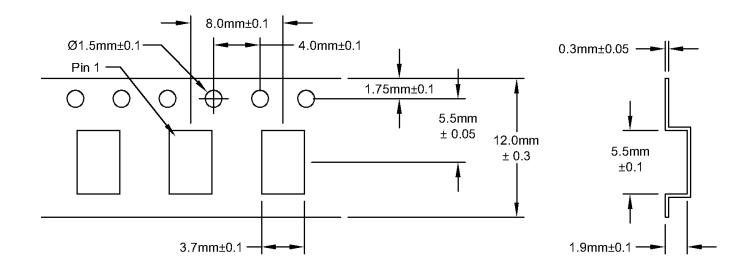








Tape and Reel Specifications:



Datasheet Revision Table:

| Date | Rev. | Author | Details of Revision |
|----------|------|--------|---------------------|
| 03/10/15 | 0 | MM | Original release. |