





# **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 <sup>st</sup> year
			RF Output			
Output Type		LV	PECL Compatik	ble		
Output Load		50	Ω to (Vcc-2.0) V	/DC	V	
Symmetry (duty cycle)	V <sub>OH</sub>	45		55	%	Ref. to 50% of waveform
Logic Level "1"	Vон	Vcc-1.025		Vcc-0.880	V	
Logic Level "0"	T <sub>DC</sub>	Vcc-1.810		Vcc-1.620	V	
Rise/Fall Time	T <sub>R</sub> /T <sub>F</sub>		0.2	0.4	nS	20% to 80% of waveform
Start-up Time	Tsu			10	mS	T <sub>ambient</sub> = +25°C
Enable Logic		80% V <sub>CC</sub> 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 <sub>cc</sub> Max	Output Disabled to high-Z

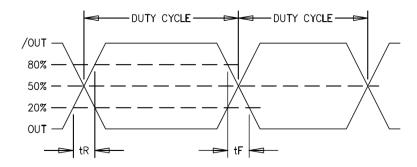
Enable Phase Delay = 2.0 mSec Max Disable Phase Delay = 200 nSec Max







# **Output Waveform:**



#### **Environmental & Packaging Requirements:**

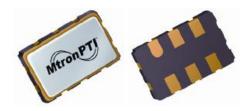
Operating Temperature	TA	-40		+85	S°	
Storage Temperature	Ts	-55		+125	°C	
Mechanical Shock	Per MIL-S	TD-202, M	ethod 213, Co	ondition C (1	00 g's, 6 ms (	duration, ½ sinewave)
Vibration	Per MIL-S	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)				
Thermal Cycle	Per MIL-S	TD-883, M	ethod 1010, E	3 (-55°C to 1	25°C, 15 min	. dwell, 10 cycles)
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 <sup>-8</sup> 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 <sub>cc</sub>

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

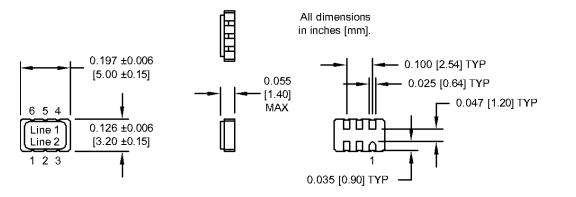
Legend		
уу	Year	
ww	Work Week	
vv	Factory code	

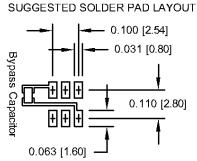




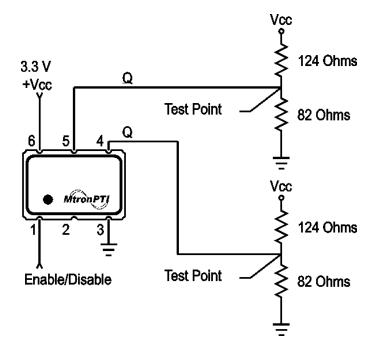


## **Dimensions:**





#### **Typical Test Circuit & Load Circuit Diagrams:**

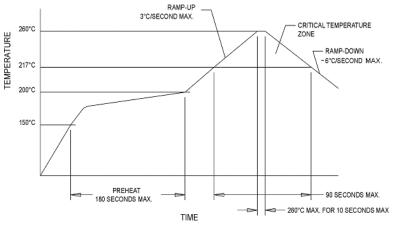


**Soldering Conditions:** 



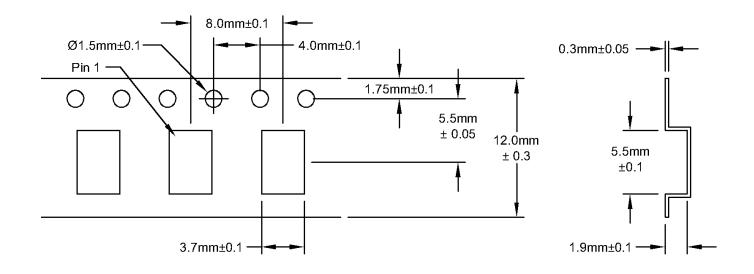








#### Tape and Reel Specifications:



#### **Datasheet Revision Table:**

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