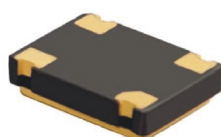
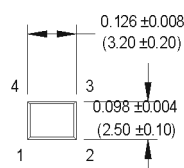


M2532 Series

2.5 x 3.2 mm, 3.3 Volt, HCMOS, Clock Oscillator



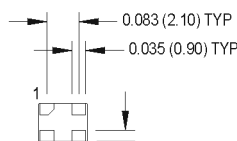
- 3.3 Volt Operation
- Standby or Tristate Option
- High density boards, low power circuits, portable test sets



ACTUAL SIZE

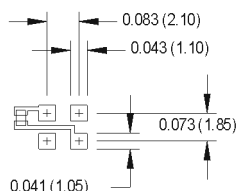
All dimensions
in inches (mm).

0.043 (1.10) MAX



0.030 (0.75) TYP

SUGGESTED SOLDER PAD LAYOUT



Ordering Information

	M2532	1	3	T	C	N	00.0000 MHz
Product Series							
Temperature Range							
1: 0°C to +70°C							
2: -40°C to +85°C							
6: -20°C to +70°C							
Stability							
3: ±100 ppm							
4: ±50 ppm							
5: ±35 ppm							
6: ±25 ppm							
Output Type							
F: Fixed							
T: Tristate							
Q: Standby Function							
Symmetry/Logic Compatibility							
G: 40/60 HCMOS							
C: 45/55 HCMOS							
Package/Lead Configurations							
N: Leadless							
Frequency (customer specified)							

PIN	FUNCTION
1	N/C, Tri-state or Standby
2	Ground
3	Output
4	+Vdd

Electrical Specifications	PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition
	Frequency Range	F	1.0		66.0	MHz	See Note 1
	Frequency Stability	ΔF/F	(See Ordering Information)				
	Operating Temperature	T _A	(See Ordering Information)				
	Storage Temperature	T _s	-55		+125	°C	
	Input Voltage	V _{dd}		3.3		V	± 5%
	Input Current	I _{dd}	12		20	mA	Frequency Dependent
	Standby Current				50	μA	Standby Mode
	Symmetry (Duty Cycle)		(See Ordering Information)				Ref. ½ V _{dd}
	Load				15	pF	
	Rise/Fall Time	T _r /T _f			10	ns	10% and 90% frequency dependent
	Logic “1” Level	V _{oh}	90% V _{dd}			V	HCMOS Load
	Logic “0” Level	V _{ol}			10% V _{dd}	V	HCMOS Load
	Random Jitter			4	10	ps RMS	1 Sigma
Standby/Tristate Function		Input Logic “1” or floating; output active Input Logic “0”; output to high-Z					
Environmental	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C					
	Vibration	Per MIL-STD-202, Method 201 & 204					
	Reflow Solder Conditions	See “Figure 2”					
	Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm.cc/s of helium)					
	Solderability	Per EIAJ-STD-002					

MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.