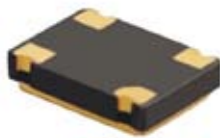


M2532 Series

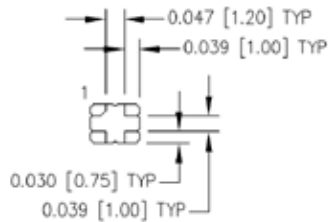
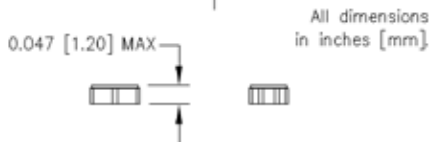
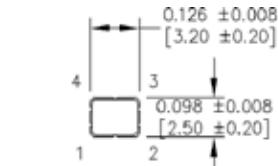
2.5 x 3.2 mm, 3.3 Volt, HCMOS, Clock Oscillator



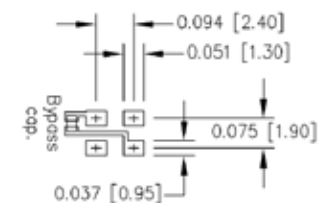
- 3.3 Volt Operation
- Standby or Tristate Option
- High density boards, low power circuits, portable test sets

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)							



SUGGESTED SOLDER PAD LAYOUT



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

PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition
Frequency Range	F	1.0		66.0	MHz	
Frequency Stability	ΔF/F	(See ordering information)				
Operating Temperature	TA	(See ordering information)				
Storage Temperature	TS	-55		+125	°C	
Aging		-5		+5	ppm	Per year @ 25°C
Input Voltage	Vcc	3.135	3.3	3.465	V	
Input Current	Idd			20	mA	Frequency Dependent
Standby Current				50	μA	Standby Mode
Symmetry (Duty Cycle)		(See ordering information)				
Load				15	pF	
Rise/Fall Time	Tr/Tf			10	nS	10%Vdd and 90%Vdd
Logic "1" Level	Voh	90% Vdd			V	HCMOS Load
Logic "0" Level	Vol			10% Vdd	V	HCMOS Load
Startup Time				10	mS	
Standby/Tristate Function		Input Logic "1" or floating: output active Input Logic "0": output to high-Z				
Random Jitter			4	10	pS RMS	1 Sigma
Electrical Specifications						
Environmental						
Mechanical Shock	Per MIL-STD-202, Method 213, Condition C					
Vibration	Per MIL-STD-202, Method 201 & 204					
Reflow Conditions	See "Figure 2"					
Hermeticity	Per MIL-STD-202, Method 112 (1x10 ⁻⁵ 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.