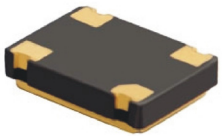
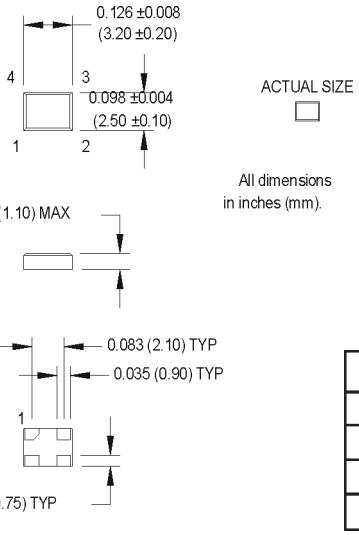
M2532 Series

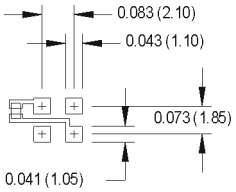
2.5 x 3.2 mm, 3.3 Volt, HCMOS, Clock Oscillator



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



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
- **Q:** Standby Function
- **T:** Tristate

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

	PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition
Electrical Specifications	Frequency Range	F	1.0		66.0	MHz	See Note 1
	Frequency Stability	ΔF/F	(See Ordering Information)				
	Operating Temperature	TA	(See Ordering Information)				
	Storage Temperature	Ts	-55		+125	°C	
	Input Voltage	Vdd		3.3		V	± 5%
	Input Current	Idd	12		20	mA	Frequency Dependent
	Standby Current				50	µA	Standby Mode
	Symmetry (Duty Cycle)		(See Ordering Information)				Ref. ½ Vdd
	Load				15	pF	
	Rise/Fall Time	Tr/Tf			10	ns	10% and 90% frequency dependent
	Logic "1" Level	Voh	90% Vdd			V	HCMOS Load
	Logic "0" Level	Vol			10% Vdd	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					