

# M2532 Series

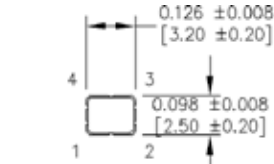
## 2.5 x 3.2 mm, 3.3 Volt, HCMOS, Clock Oscillator



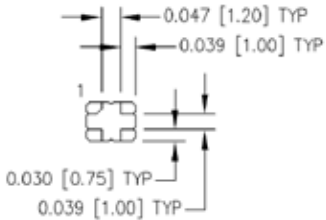
- 3.3 Volt Operation
- Standby or Tristate Option
- High density boards, low power circuits, portable test sets

### Ordering Information

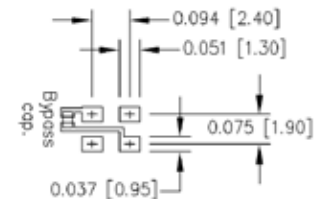
	M2532	1	3	T	C	N	00.0000	MHz
Product Series								
Temperature Range	1: 0°C to +70°C		2: -40°C to +85°C		6: -20°C to +70°C			
Stability	3: ±100 ppm		4: ±50 ppm		5: ±35 ppm			6: ±25 ppm
Output Type	F: Fixed		T: Tristate		Q: Standby Function			
Symmetry/Logic Compatibility	G: 40/60 HCMOS		C: 45/55 HCMOS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



All dimensions in inches [mm]



### 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
Electrical Specifications	Frequency Range	F	1.0		66.0	MHz	
	Frequency Stability	$\Delta F/F$	(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	
	Environmental	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
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 <sup>-5</sup> atm.cc/s of helium)						
Solderability	Per EIAJ-STD-002						

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