



Full Size Clock Oscillators TTL Compatible



The XO-53 series oscillator is TTL compatible and features fast rise/fall times with high reliability at low cost. The metal package with pin 7 case ground acts as shielding to minimize EMI radiation.

FEATURES

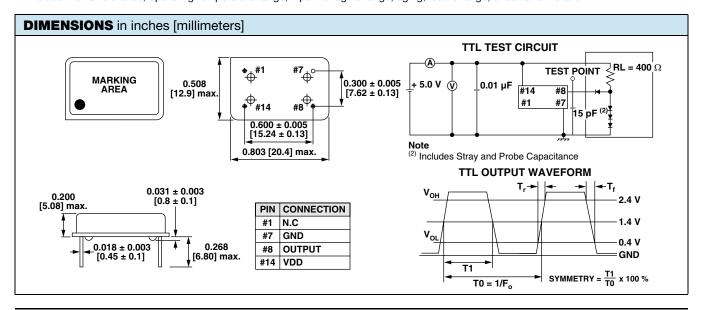
- 10 TTL output load
- Size: 14 pin full size
- · Industry standard
- Wide frequency range
- Low cost
- Resistance weld package
- Compliant to RoHS directive 2002/95/EC



STANDARD ELECTRICAL SPECIFICATIONS							
PARAMETER	SYMBOL	CONDITION	VALUE				
Frequency range	F _O	-	1.0 MHz to 100.000 MHz				
Frequency stability (1)		all conditions	± 25 ppm, ± 50 ppm, ± 100 ppm				
Operating temperature range	T _{OPR}		0 °C to 70 °C				
		-	- 40 °C to + 85 °C (option)				
Storage temperature range	T _{STG}	-	- 55 °C to + 125 °C				
Power supply voltage	V _{DD}	-	5.0 V ± 10 %				
Aging (first year)		25 °C ± 3 °C	± 5 ppm				
Supply current		1.0 MHz to 23.999 MHz	15 mA max.				
	I _{DD}	24.000 MHz to 69.999 MHz	30 mA max.				
		70.000 MHz to 100.000 MHz	60 mA max.				
Output symmetry	Sym	at 1.4 V	40 %/60 % (45 %/55 % option)				
Rise time	t _r	0.4 V to 2.4 V	5 ns max.				
Fall time	t _f	2.4 V to 0.4 V	5 ns max.				
Output voltage	V _{OH}	-	2.4 V min.				
	V _{OL}	-	0.4 V max.				
Output load	TTL load	-	1 TTL to 10 TTL				
Start-up time	t _s	-	10 ms max.				

Note

⁽¹⁾ Include: 25 °C tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration



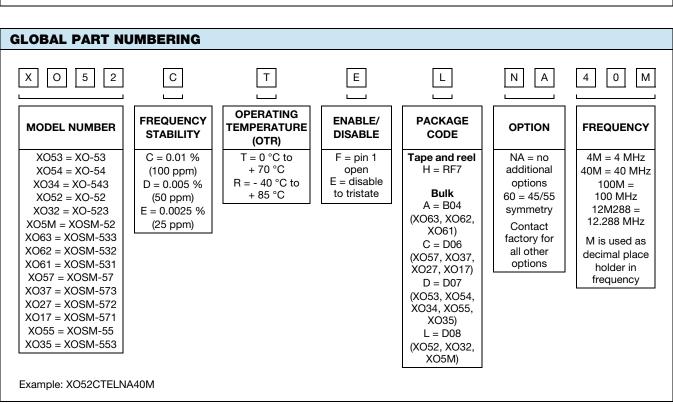
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ORDERING INFORMATION								
XO-53	В	R	40 M	e2				
MODEL	FREQUENCY STABILITY AA = 0.0025 % (25 ppm) A = 0.005 % (50 ppm) B = 0.01 % (100 ppm) standard	OTR blank = 0 °C to + 70 °C R = - 40 °C to + 85 °C	FREQUENCY/MHz	JEDEC LEAD (Pb)-FREE standard				

GLOBAL PART NUMBER							
X O 5 3	FREQUENCY STABILITY	T OTR	PACKAGE CODE	N A OPTIONS	FREQUENCY		





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