



Full Size Clock Oscillators TTL/HCMOS Compatible



The XO-54 series oscillator is full size tri-state enable/disable control. The metal package with pin 7 case ground acts as shielding to minimize EMI radiation.

FEATURES

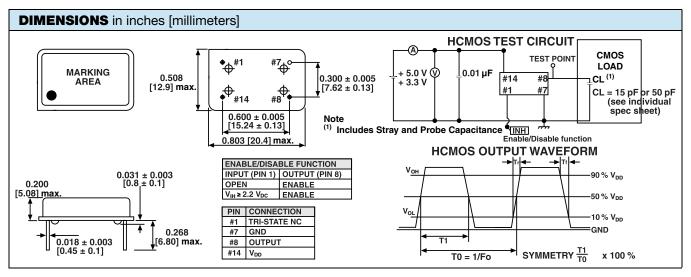
- Size: 14 pin full size
- · Industry standard
- Wide frequency range
- Low cost
- Tri-state enable/disable
- · Resistance weld package
- 5 V
- Compliant to RoHS Directive 2002/95/EC



PARAMETER	SYMBOL	CONDITION	VALUE		
Frequency range	Fo	-	1.000 MHz to 100.000 MHz		
Frequency stability (1)		all conditions	± 25 ppm, ± 50 ppm, ± 100 ppm		
Operating temperature range	т -		0 °C to 70 °C		
	T _{OPR}	-	- 40 °C to + 85 °C (option)		
Storage temperature range	T _{STG}	55 °C to + 12			
Power supply voltage	V_{DD}	- 5.0 V ± 10 %			
Aging (first year)		25 °C ± 3 °C	± 5 ppm		
Supply current		1.000 MHz to 23.999 MHz	20 mA max.		
	L	24.000 MHz to 49.999 MHz	30 mA max.		
	l _{DD}	50.000 MHz to 69.999 MHz	40 mA max.		
		70.000 MHz to 100.000 MHz	60 mA max.		
Output symmetry	Sym	at ½ V _{DD}	40 %/60 % (45 %/55 % option)		
Rise time	t _r	10 % V _{DD} to 90 % V _{DD}	10 ns max.		
Fall time	t _f	90 % V _{DD} to 10 % V _{DD}	10 ns max.		
Output voltage	V _{OH}	-	90 % V _{DD} min.		
	V_{OL}	-	10 % V _{DD} max.		
Output load	TTL load	-	1 TTL to 10 TTL		
	HCMOS load	-	to 50M: 50 pF		
		-	to 70M: 30 pF		
		-	to 100M: 15 pF		
Start-up time	ts	-	10 ms max.		
Din 1 tri state function			pin 1 = H or open (output active at pin		
Pin 1, tri-state function		-	pin 1 = L (high impedance at pin 3)		

Note

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



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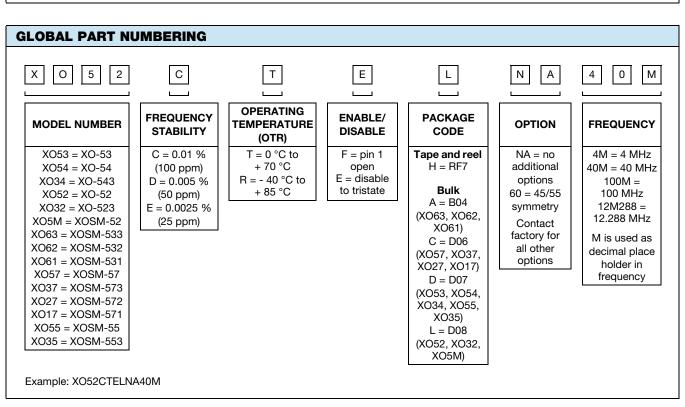
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ORDERING INFORMATION											
XO-54	В	R	E	40 M	e2						
MODEL	FREQUENCY STABILITY AA = 0.0025 % (25 ppm) A = 0.005 % (50 ppm) B = 0.01 % (100 ppm) standard	OTR blank = 0 °C to + 70 °C R = - 40 °C to + 85 °C	ENABLE/DISABLE blank = pin 1 open E = disable to tri-state	FREQUENCY/MHz	JEDEC LEAD (Pb)-FREE standard						

GLOBAL PART NUMBER									
X O 5 4	FREQUENCY STABILITY	T OTR	E ENABLE/ DISABLE	PACKAGE CODE	N A OPTIONS	FREQUENCY			



PART MARKING

Line 1: M2803XXXXX (part number)
Line 2: XX.XXXXM (frequency)
Line 3: yywwvv (date/factory code)

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