



Full Size Clock Oscillators TTL/HCMOS Compatible



The XO-543 series is with 3.3 V power supply. The metal package with pin 7 case ground acts as shielding to minimize EMI radiation.

FEATURES

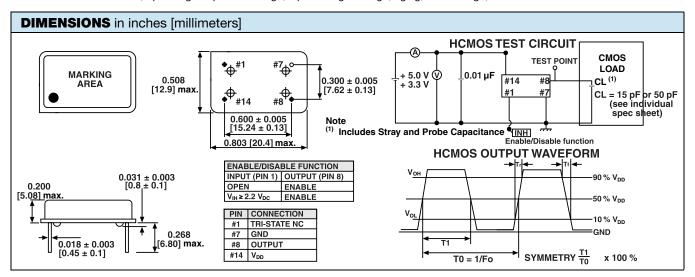
- Size: 14 pin full size
- Industry standard
- Wide frequency range
- Low cost
- Tri-state enable/disable
- · Resistance weld package
- 3.3 V
- Compliant to RoHS Directive 2002/95/EC



PARAMETER	SYMBOL	CONDITION	VALUE	
Frequency range	F _O	-	1.000 MHz to 100.000 MHz	
Frequency stability (1)		all conditions	± 25 ppm, ± 50 ppm, ± 100 ppm	
Operating temperature range	_		0 °C to 70 °C	
	T _{OPR}	-	- 40 °C to + 85 °C (option)	
Storage temperature range	T _{STG}	-	- 55 °C to + 125 °C	
Power supply voltage	V _{DD}	-	3.3 V ± 10 %	
Aging (first year)		25 °C ± 3 °C	± 5 ppm	
		1.000 MHz to 23.999 MHz	15 mA max.	
Supply current		24.000 MHz to 49.999 MHz	20 mA max.	
	I _{DD}	50.000 MHz to 69.999 MHz	30 mA max.	
		70.000 MHz to 100.000 MHz	45 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}	8 ns max.	
Fall time	t _f	90 % V _{DD} to 10 % V _{DD}	8 ns max.	
Output valtage	V _{OH}	-	90 % V _{DD} min.	
Output voltage	V _{OL}	-	10 % V _{DD} max.	
	TTL load	-	1 TTL to 5 TTL	
Output load	LICMOS load	-	to 50M: 30 pF	
	HCMOS load	-	to 125M: 15 pF	
Start-up time	t _s	-	10 ms max.	
Din 1 tri state function			pin 1 = H or open (output active at pin 3)	
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



Document Number: 35038 Revision: 24-Nov-10 For technical questions, contact: frequency@vishay.com

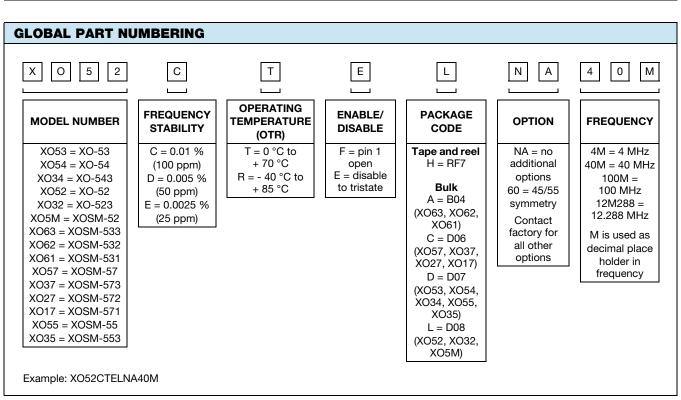
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ORDERING INFORMATION										
XO-543	В	R	E	40M	e2					
MODEL	FREQUENCY STABILITY AA = 0.0025 % (25 ppm) A = 0.005 % (50 ppm) B = 0.01 % (100 ppm)	OTR blank = 0 °C to + 70 °C R = - 40 °C to + 85 °C	ENABLE/DISABLE blank = pin 1 open E = disable to tri-state	FREQUENCY/MHz	JEDEC LEAD (Pb)-FREE standard					

GLOBAL PART NUMBER									
X O 3 4	FREQUENCY STABILITY	T OTR	ENABLE/ DISABLE	PACKAGE CODE	N A OPTIONS	FREQUENCY			



PART MARKING

Line 1: M28_XXXXX (part number)
Line 2: XX.XXXXM (frequency)
Line 3: yywwvv (date/factory code)

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