



Half Size Clock Oscillator Enable/Disable



The XO-523 series oscillator is half size, has tri-state enable/disable controlled function, and is with a 3.3 V power supply voltage. The metal package with pin 4 case ground acts as shielding to minimize EMI radiation.

FEATURES

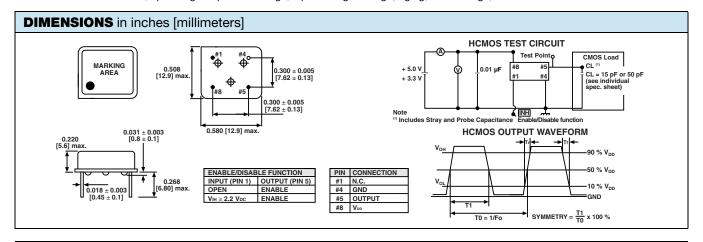
- Size: 8 pin half size
- · Industry standard
- Tri-state enable/disable
- Wide frequency range
- Low cost
- Resistance weld package
- 3.3 V
- Compliant to RoHS Directive 2002/95/EC



STANDARD ELECTRICAL SPECIFICATIONS							
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	т		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				
Supply current		1.000 MHz to 23.999 MHz	15 mA max.				
		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 ¹ / ₂ V _{DD}	40 %/60 % (45 %/55 % option)				
Rise time	t _r	20 % V _{DD} to 80 % V _{DD}	8 ns max.				
Fall time	t _f	80 % V _{DD} to 20 % V _{DD}	8 ns max.				
Output voltage	V _{OH}	-	90 % V _{DD} min.				
	V _{OL}	-	10 % V _{DD} max.				
Output load	TTL load	-	1 TTL to 5 TTL				
	LICMOS load	-	to 50M: 30 pF				
	HCMOS load -	-	to 125M: 15 pF				
Start-up time	t _s	-	10 ms max.				
Die 4 tei state from tiere			pin 1 = H or open (output active at pin 5)				
Pin 1, tri-state function		-	pin 1 = L (high impedance at pin 5)				

Note

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



Document Number: 35044 Revision: 24-Nov-10 For technical questions, contact: frequency@vishay.com

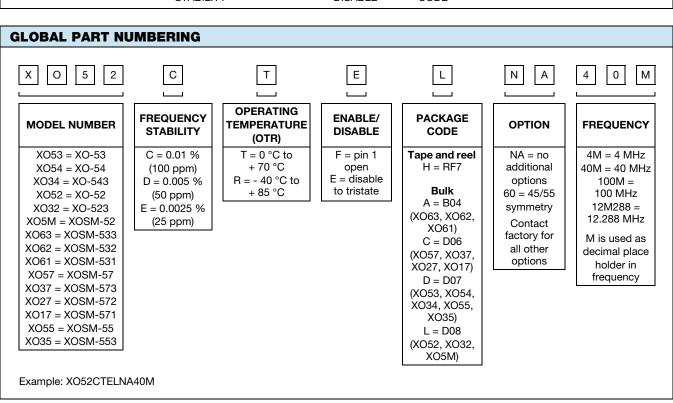
Vishay Dale

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ORDERING INFORMATION									
XO-523	В	R	E	40 M	e2				
MODEL	FREQUENCY STABILITY	OTR	ENABLE/DISABLE	FREQUENCY/MHz	JEDEC LEAD (Pb)-FREE				
	AA = 0.0025 % (25 ppm) A = 0.005 % (50 ppm)	blank = 0 °C to + 70 °C R = - 40 °C to + 85 °C	blank = pin 1 open E = disable to tri-state		standard				

GLOBAL PART NUMBER							
X O 3 2 MODEL	FREQUENCY STABILITY	T OTR	E ENABLE/ DISABLE	PACKAGE CODE	N A OPTIONS	FREQUENCY	



PART MARKING

Line 1: M2801XXXXX (part number)
Line 2: XX.XXXXM (frequency)
Line 3: yywwvv (date/factory code)





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