

Vishay Dale

Surface Mount Oscillator



The XOSM-571 series is an ultra miniature package clock oscillator with dimensions 7.0 mm x 5.0 mm x 1.5 mm. It is mainly used in portable PC and telecommunication devices and equipment.

FEATURES

- Size: 7.0 x 5.0 x 1.5 (mm)
- Miniature package
- Tri-state enable/disable
- HCMOS compatible
- Tape and reel
- I_R re-flow
- 1.8 V input voltage
- Compliant to RoHS directive 2002/95/EC

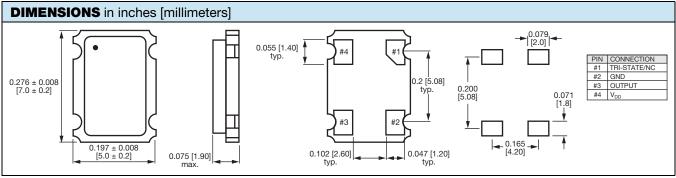




STANDARD ELECTRICAL SPECIFICATIONS							
PARAMETER	SYMBOL	CONDITION	VALUE				
Frequency range	F _O	-	1.000 MHz to 70.000 MHz				
Frequency stability (1)		all conditions	± 25 ppm, ± 50 ppm, ± 100 ppm				
Operating temperature range	T _{OPR}		0 °C to 70 °C				
		-	- 40 °C to + 85 °C (option)				
Storage temperature range	T _{STG}	-	- 55 °C to + 125 °C				
Power supply voltage	V _{DD}	-	1.8 V ± 10 %				
Aging (first year)		25 °C ± 3 °C	± 5 ppm				
Supply current	I _{DD}	1.000 MHz to 70.000 MHz	20 mA max.				
Output symmetry	Sym	at ¹ / ₂ V _{DD}	40 %/60 % (45 %/55 % option)				
Rise/fall time	t _r /t _f	1.000 MHz to 35.328 MHz	10 ns				
		35.329 MHz to 70.000 MHz	4 ns				
O to to allow	V _{OH}	-	90 % V _{DD} min.				
Output voltage	V _{OL}	-	10 % V _{DD} max.				
Output load		-	10 TTL or 30 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 vibration



Note

A 0.01 μF bypass capacitor should be placed between V_{DD} (pin 4) and GND (pin 2) to minimize power supply line noise

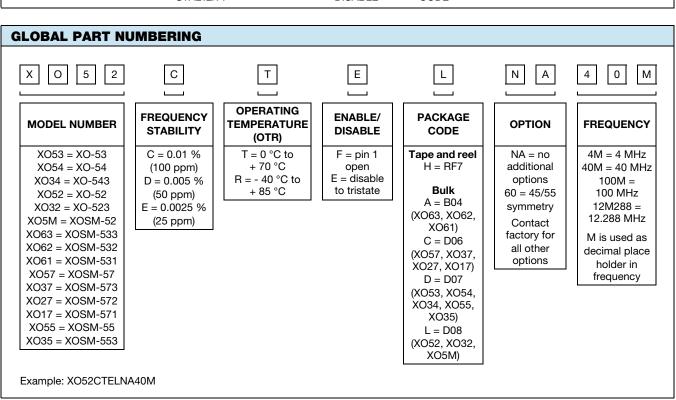
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ORDERING INFORMATION										
XOSM-571	В	R	E	50M	e4					
MODEL	FREQUENCY STABILITY AA = 0.0025 % (25 ppm) A = 0.005 % (50 ppm)	OTR blank = standard R = - 40 °C to + 85 °C	ENABLE/DISABLE E = disable to tri-state	FREQUENCY/MHz	JEDEC LEAD (Pb)-FREE standard					
	B = 0.01 % (100 ppm) standard									

GLOBAL PART NUMBER								
X O 1 7 MODEL	FREQUENCY STABILITY	T OTR	E ENABLE/ DISABLE	PACKAGE CODE	N A OPTIONS	5 0 M FREQUENCY		





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