

XOSM-571

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 1.9 mm. It is mainly used in portable PC and telecommunication devices and equipment.

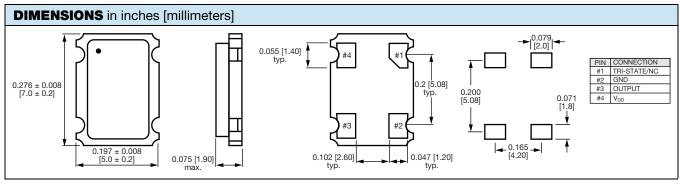
FEATURES

- Size: 7.0 x 5.0 x 1.9 (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
- Halogen-free according to IEC 61249-2-21 definition

STANDARD ELECTRICAL SPECIFICATIONS				
PARAMETER	SYMBOL	CONDITION	VALUE	
Frequency range	Fo	-	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	
Output voltage	V _{OH}	-	90 % V _{DD} min.	
	V _{OL}	-	10 % V _{DD} max.	
Output load		-	10 TTL or 30 pF	
Start-up time	ts	-	10 ms max.	
Pin 1, tri-state function		-	pin 1 = H or open (output active at pin 3)	
			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



COMPLIANT

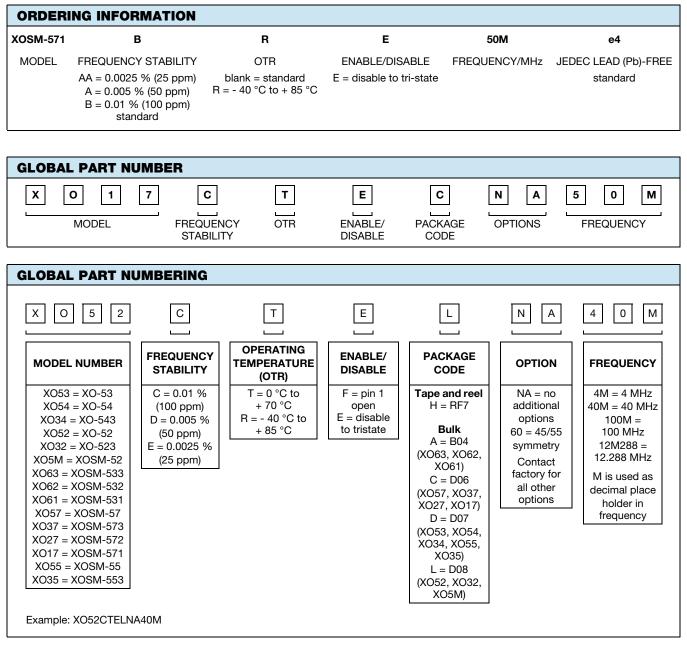
HALOGEN

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



Vishay

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