



Surface Mount Oscillator



The XOSM-573 series is an ultra miniature package clock oscillator with dimensions 7.0 mm \times 5.0 mm \times 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
- TTL/HCMOS compatible
- Tape and reel
- I_R re-flow
- 3.3 V input voltage
- Compliant to RoHS Directive 2002/95/EC

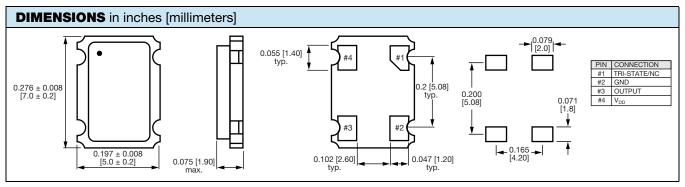


RoHS

STANDARD ELECTRICAL SPECIFICATIONS								
PARAMETER	SYMBOL	CONDITION	VALUE					
Frequency range	Fo	-	1.500 MHz to 100.000 MHz					
Frequency stability (1)		all conditions	± 25 ppm, ± 50 ppm, ± 100 ppm					
	_		0 °C to 70 °C					
Operating temperature range	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					
		1.500 MHz to 20.000 MHz	10 mA max.					
Cupply ourrent		20.001 MHz to 50.000 MHz	20 mA max.					
Supply current	l _{DD}	50.001 MHz to 67.000 MHz	30 mA max.					
		67.001 MHz to 100.000 MHz	55 mA max.					
Output symmetry	Sym	at ½ V _{DD}	40 %/60 % (45 %/55 % option)					
		1.500 MHz to 50.000 MHz	6 ns					
Rise/fall time	t _r /t _f	50.001 MHz to 80.000 MHz	4 ns					
		80.001 MHz to 100.000 MHz	2 ns					
0	V _{OH}	-	90 % V _{DD} min.					
Output voltage	V _{OL}	-	10 % V _{DD} max.					
Output load		-	2 TTL or 15 pF					
Start-up time	t _s	-	10 ms max.					
Die 1 tei state franction			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



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

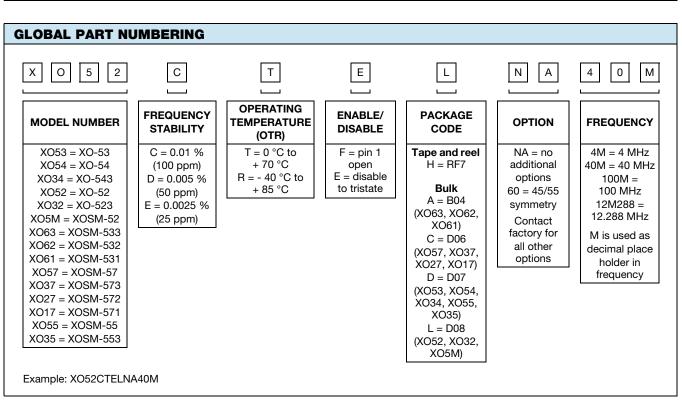
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ORDERING INFORMATION										
XOSM-573	В	R	E	50M	e4					
MODEL	FREQUENCY STABILITY AA = 0.0025 % (25 ppm) A = 0.005 % (50 ppm) B = 0.01 % (100 ppm) standard	OTR blank = standard R = - 40 °C to + 85 °C	ENABLE/DISABLE E = disable to tri-state	FREQUENCY/MHz	JEDEC LEAD (Pb)-FREE standard					

GLOBAL PART NUMBER									
X O 3 7	FREQUENCY STABILITY	T OTR	E ENABLE/ DISABLE	PACKAGE CODE	N A OPTIONS	5 0 M FREQUENCY			



PART MARKING

Line 1: M2809XXXXX (part number)
Line 2: XX.XXXXM (frequency)
Line 3: yywwv (date/factory code)

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Vishay

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