

# **XOSM-572**

Vishay Dale

RoHS

COMPLIANT

### **Surface Mount Oscillator**



The XOSM-572 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.

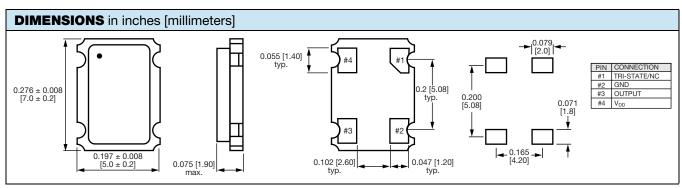
### FEATURES

- Size: 7.0 x 5.0 x 1.9 (mm)
- Miniature package
- Tri-state enable/disable
- HCMOS compatible
- Tape and reel
- I<sub>R</sub> re-flow
- 2.5 V input voltage
- Compliant to RoHS Directive 2002/95/EC

STANDARD ELECTRICAL SPECIFICATIONS			
PARAMETER	SYMBOL	CONDITION	VALUE
Frequency range	Fo	-	1.000 MHz to 100.000 MHz
Frequency stability <sup>(1)</sup>		all conditions	± 25 ppm, ± 50 ppm, ± 100 ppm
Operating temperature range	T <sub>OPR</sub>	-	0 °C to 70 °C
			- 40 °C to + 85 °C (option)
Storage temperature range	T <sub>STG</sub>	-	- 55 °C to + 125 °C
Power supply voltage	V <sub>DD</sub>	-	2.5 V ± 10 %
Aging (first year)		25 °C ± 3 °C	± 5 ppm
Supply current	I <sub>DD</sub>	1.000 MHz to 100.000 MHz	30 mA max.
Output symmetry	Sym	at <sup>1</sup> / <sub>2</sub> V <sub>DD</sub>	40 %/60 % (45 %/55 % option)
Rise/fall time	t <sub>r</sub> /t <sub>f</sub>	1.000 MHz to 100.000 MHz	6 ns max.
Output voltage	V <sub>OH</sub>	-	90 % V <sub>DD</sub> min.
	V <sub>OL</sub>	-	10 % V <sub>DD</sub> max.
Output load		-	10 TTL or 15 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

<sup>(1)</sup> 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<sub>DD</sub> (pin 4) and GND (pin 2) to minimize power supply line noise

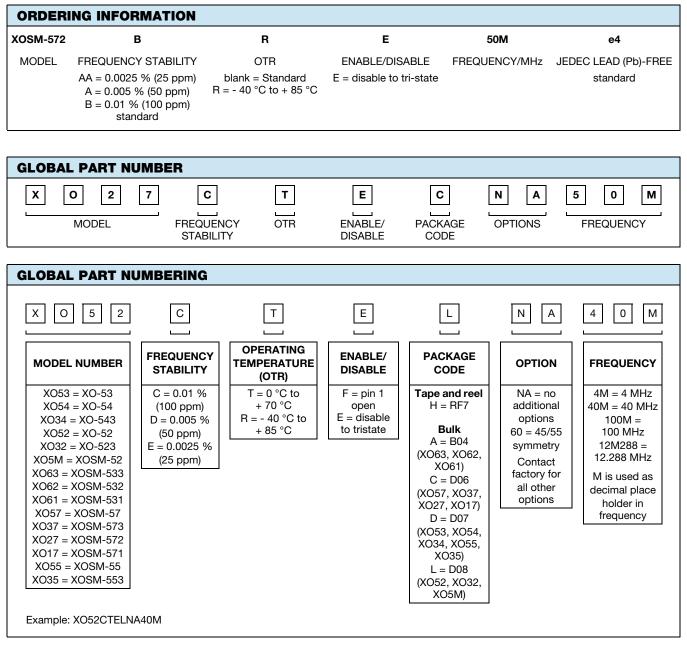
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PART MARKING		
Line 1:	M2805XXXXX (part number)	
Line 2:	XX.XXXXM (frequency)	
Line 3:	yywwvv (date/factory code)	



Vishay

## Disclaimer

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