**XOSM-573** 

Vishay Dale



### **Surface Mount Oscillator**



The XOSM-573 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
- TTL/HCMOS compatible
- Tape and reel
- I<sub>R</sub> re-flow
- 3.3 V input voltage
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

Pb-free

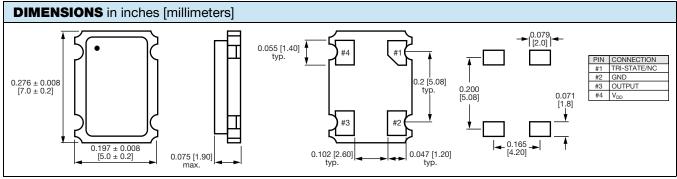
COMPLIANT

HALOGEN

STANDARD ELECTRICAL SPECIFICATIONS				
PARAMETER	SYMBOL	CONDITION	VALUE	
Frequency range	Fo	-	1.500 MHz to 100.000 MHz	
Frequency stability <sup>(1)</sup>		all conditions	± 25 ppm, ± 50 ppm, ± 100 ppm	
Operating temperature repair	T <sub>OPR</sub>	-	0 °C to 70 °C	
Operating temperature range			- 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>	-	3.3 V ± 10 %	
Aging (first year)		25 °C ± 3 °C	± 5 ppm	
	I <sub>DD</sub> -	1.500 MHz to 20.000 MHz	10 mA max.	
Cupply current		20.001 MHz to 50.000 MHz	20 mA max.	
Supply current		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 <sub>DD</sub>	40 %/60 % (45 %/55 % option)	
		1.500 MHz to 50.000 MHz	6 ns	
Rise/fall time	t <sub>r</sub> /t <sub>f</sub>	50.001 MHz to 80.000 MHz	4 ns	
		80.001 MHz to 100.000 MHz	2 ns	
Output valtage	V <sub>OH</sub>	-	90 % V <sub>DD</sub> min.	
Output voltage	V <sub>OL</sub>	-	10 % V <sub>DD</sub> max.	
Output load		-	2 TTL or 15 pF	
Start-up time	t <sub>s</sub>	-	10 ms max.	
Din 1 tri atata 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 and vibration



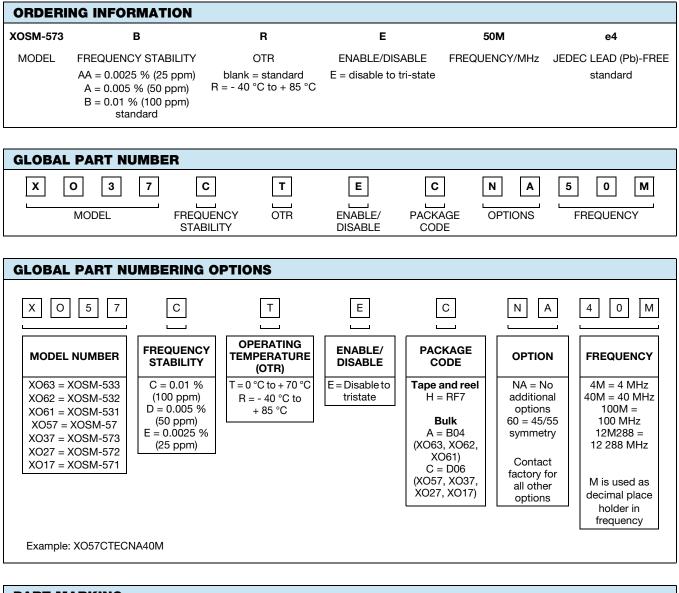
#### Note

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

2 For technical questions, contact: <u>frequency@vishay.com</u>

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