**XOSM-571** 

Vishay Dale



and equipment.

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

### **Surface Mount Oscillator**

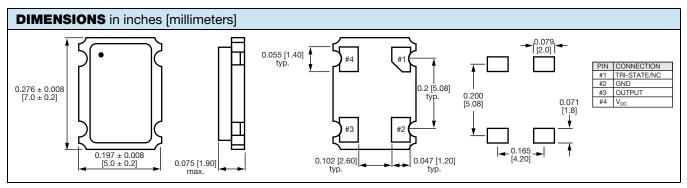
### **FEATURES**

- Size: 7.0 x 5.0 x 1.9 (mm)
- Miniature package
- Tri-state enable/disable
- HCMOS compatible
- Tape and reel
- I<sub>B</sub> re-flow
- 1.8 V input voltage
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

STANDARD ELECTRICAL SPECIFICATIONS				
PARAMETER	SYMBOL	CONDITION	VALUE	
Frequency range	Fo	-	1.000 MHz to 70.000 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>	-	1.8 V ± 10 %	
Aging (first year)		25 °C ± 3 °C	± 5 ppm	
Supply current	I <sub>DD</sub>	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 <sub>r</sub> /t <sub>f</sub>	1.000 MHz to 35.328 MHz	10 ns	
		35.329 MHz to 70.000 MHz	4 ns	
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 30 pF	
Start-up time	t <sub>s</sub>	-	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<sub>DD</sub> (pin 4) and GND (pin 2) to minimize power supply line noise

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COMPLIANT

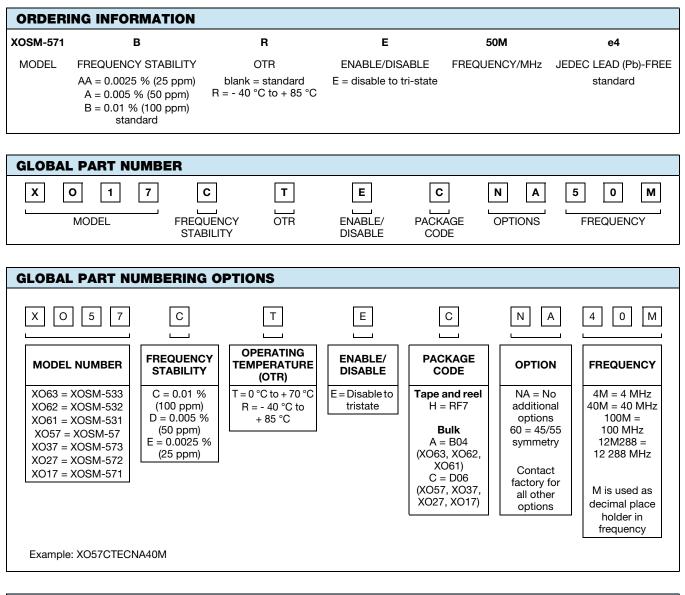
HALOGEN

FREE

www.vishay.com

# **XOSM-571**

### Vishay Dale



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



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