Vishay Dale







The XOSM-57 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
- 5 V input voltage
- Compliant to RoHS Directive 2002/95/EC

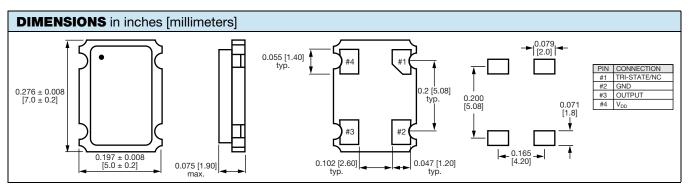


RoHS

PARAMETER	SYMBOL	CONDITION	VALUE 1.500 MHz to 100.000 MHz		
Frequency range	F _O	-			
Frequency stability (1)		all conditions	± 25 ppm, ± 50 ppm, ± 100 ppm		
	T _{OPR}		0 °C to 70 °C		
Operating temperature range		-	- 40 °C to + 85 °C (option)		
Storage temperature range	T _{STG}	-	- 55 °C to + 125 °C		
Power supply voltage	V _{DD}	-	5.0 V ± 10 %		
Aging (first year)		25 °C ± 3 °C	± 5 ppm		
Supply current	I _{DD}	1.500 MHz to 20.000 MHz	20 mA max.		
		20.001 MHz to 50.000 MHz	35 mA max.		
		30.001 MHz to 100.000 MHz	45 mA max.		
Output symmetry	Sym	at ¹ / ₂ V _{DD}	40 %/60 % (45 %/55 % option)		
Rise/fall time	t _r /t _f	1.500 MHz to 67.000 MHz	10 ns		
		67.001 MHz to 100.000 MHz	3 ns		
Output valtage	V _{OH}	-	90 % V _{DD} min.		
Output voltage	V _{OL}	-	10 % V _{DD} max.		
0.1.1.1		1.500 MHz to 67.000 MHz	10 TTL or 50 pF max.		
Output load		67.001 MHz to 100.000 MHz	15 pF max.		
Start-up time	ts	-	10 ms max.		
Die 4 toi state formation			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 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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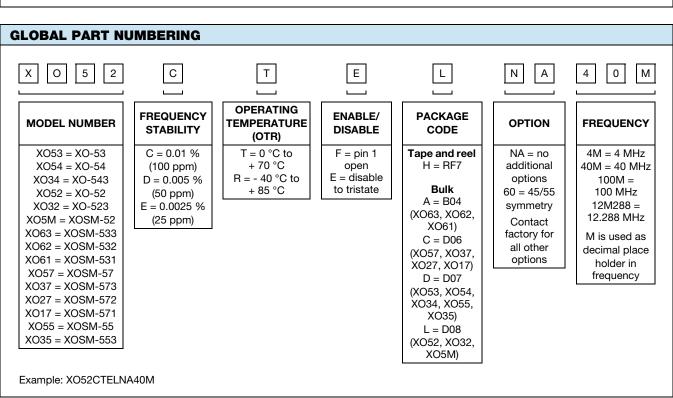
Vishay Dale

Surface Mount Oscillator



ORDERING INFORMATION											
XOSM-57	В	R	E	50 M	e4						
-	FREQUENCY STABILITY AA = 0.0025 % (25 ppm) A = 0.005 % (50 ppm) B = 0.01 % (100 ppm)	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 0 5 7	FREQUENCY	T	ENABLE/	PACKAGE	N A OPTIONS	5 0 M		
MODEL	STABILITY	OTR	DISABLE	CODE		FREQUENCY		



PART MARKING

Line 1: M2804XXXXX (part number)
Line 2: XX.XXXXM (frequency)
Line 3: yywwvv (date/factory code)

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