

Vishay Dale

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

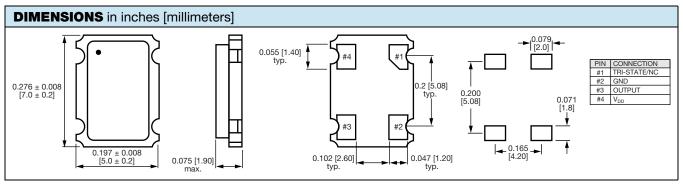
- Size: 7.0 x 5.0 x 1.9 (mm)
- Miniature package
- Tri-state enable/disable
- HCMOS compatible
- Tape and reel
- I_R re-flow
- 2.5 V input voltage
- Compliant to RoHS Directive 2002/95/EC
- Halogen-free according to IEC 61249-2-21 definition

Pb-free
RoHS
HALOGEN FREE

PARAMETER	SYMBOL	CONDITION	VALUE		
Frequency range	F _O	-	1.000 MHz to 100.000 MHz		
Frequency stability (1)		all conditions	± 25 ppm, ± 50 ppm, ± 100 ppm		
On eventing terms event we would	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}	-	2.5 V ± 10 %		
Aging (first year)		25 °C ± 3 °C	± 5 ppm		
Supply current	I _{DD}	1.000 MHz to 100.000 MHz	30 mA max.		
Output symmetry	Sym	at ¹ / ₂ V _{DD}	40 %/60 % (45 %/55 % option)		
Rise/fall time	t _r /t _f	1.000 MHz to 100.000 MHz	6 ns max.		
Outrout veltare	V _{OH}	-	90 % V _{DD} min.		
Output voltage	V _{OL}	-	10 % V _{DD} max.		
Output load		-	10 TTL or 15 pF		
Start-up time	t _s	-	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_{DD} (pin 4) and GND (pin 2) to minimize power supply line noise

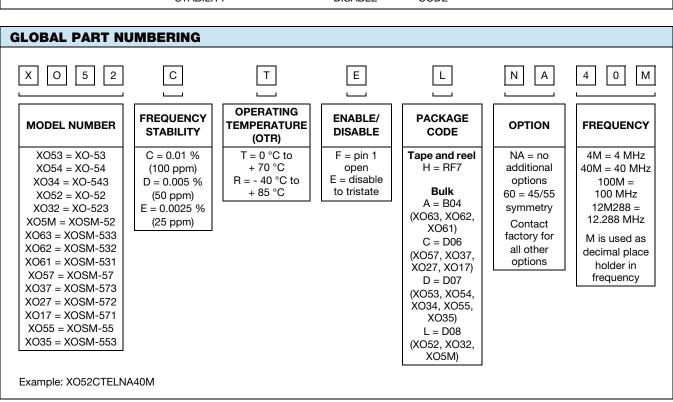
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ORDERING INFORMATION										
XOSM-572	В	R	E	50 M	e4					
MODEL	FREQUENCY STABILITY AA = 0.0025 % (25 ppm) A = 0.005 % (50 ppm) B = 0.01 % (100 ppm) standard	OTR blank = Standard R = -40 °C to +85 °C	ENABLE/DISABLE E = disable to tri-state	FREQUENCY/MHz	JEDEC LEAD (Pb)-FREE standard					

GLOBAL PART NUMBER						
X 0 2 7	C	T	E E	C	N A	5 0 M
MODEL	FREQUENCY STABILITY	OTR	ENABLE/ DISABLE	PACKAGE CODE	OPTIONS	FREQUENCY



PART MARKING

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

Document Number: 35062 Revision: 08-Mar-11





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