Vishay Dale



Surface Mount Oscillator



The XOSM-532 series is an ultra miniature package clock oscillator with dimensions 5.0 mm x 3.2 mm x 1.3 mm. It is mainly used in portable PC and telecommunication devices and equipment.

FEATURES

• Size: 5.0 x 3.2 x 1.3 (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

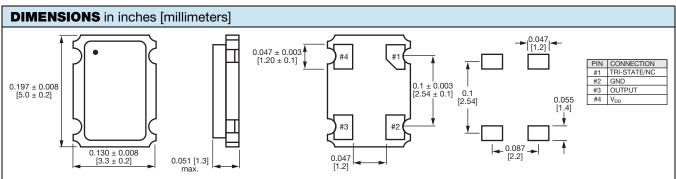


ROHS COMPLIANT HALOGEN FREE

STANDARD ELECTRICAL SPECIFICATIONS							
PARAMETER	SYMBOL	CONDITION	VALUE				
Frequency range	Fo	-	1.544 MHz to 100.000 MHz				
Frequency stability (1)		all conditions	± 25 ppm, ± 50 ppm, ± 100 ppm				
Operating temperature range	т.		0 °C to 70 °C				
	T _{OPR}	-	- 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		1.544 MHz to 9.999 MHz	7 mA max.				
	Ι. Γ	10.000 MHz to 34.999 MHz	8 mA max.				
	I _{DD}	35.000 MHz to 49.999 MHz	20 mA max.				
		50.000 MHz to 100.000 MHz	30 mA max.				
Output symmetry	Sym	at ¹ / ₂ V _{DD}	40 %/60 % (45 %/55 % option)				
Rise time	t _r	10 % V _{DD} to 90 % V _{DD}	6 ns max.				
Fall time	t _f	90 % V_{DD} to 10 % V_{DD}	6 ns max.				
O to to allow	V _{OH}	-	90 % V _{DD} min.				
Output voltage	V _{OL}	-	10 % V _{DD} max.				
Output load	HCMOS load	-	30 pF max. (15 pF typ.)				
Start-up time	t _s	-	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 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

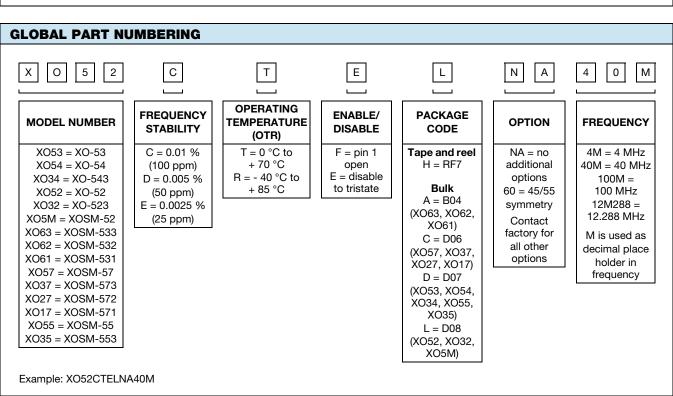
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ORDERING INFORMATION										
XOSM-532	В	R	E	50M	e4					
MODEL	FREQUENCY STABILITY AA = 0.0025 % (25 ppm) A = 0.005 % (50 ppm) B = 0.01 % (100 ppm) standard	OTR blank = standard R = - 40 °C to + 85 °C	ENABLE/DISABLE E = disable to tri-state	FREQUENCY/MHz	JEDEC LEAD (Pb)-FREE standard					

GLOBAL PART NUMBER								
X 0 6 2	C FREQUENCY	T OTR	E ENABLE/	A PACKAGE	N A OPTIONS	5 0 M		
MODEL	STABILITY	Om	DISABLE	CODE	01 110110	THEGOLINOT		



PART MARKING

Line 1: M2808XXXXX (part number)
Line 2: XX.XXXXM (frequency)
Line 3: yywwv (date/factory code)

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