XOSM-572

Vishay Dale



and equipment.

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

Surface-Mount Oscillator

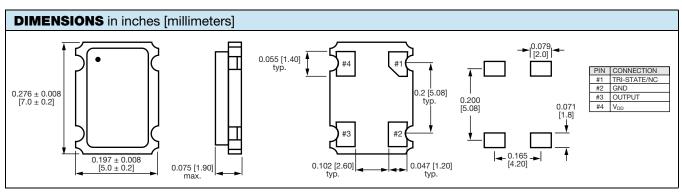
FEATURES

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

STANDARD ELECTRICAL SPECIFICATIONS							
PARAMETER	SYMBOL	CONDITION	VALUE				
Frequency range	Fo	-	1.000 MHz to 100.000 MHz				
Frequency stability ⁽¹⁾		All conditions	± 20 ppm, ± 25 ppm, ± 30 ppm, ± 35 ppm, ± 50 ppm, ± 100 ppm				
Operating temperature report	-		0 °C to 70 °C				
Operating temperature range	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	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.				
Outerstand	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.				
Die 1 tei state function			Pin 1 = H or open (output active at pin 3)				
Pin 1, tri-state function		-	Pin 1 = L (high impedance at pin 3)				

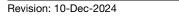
Note

(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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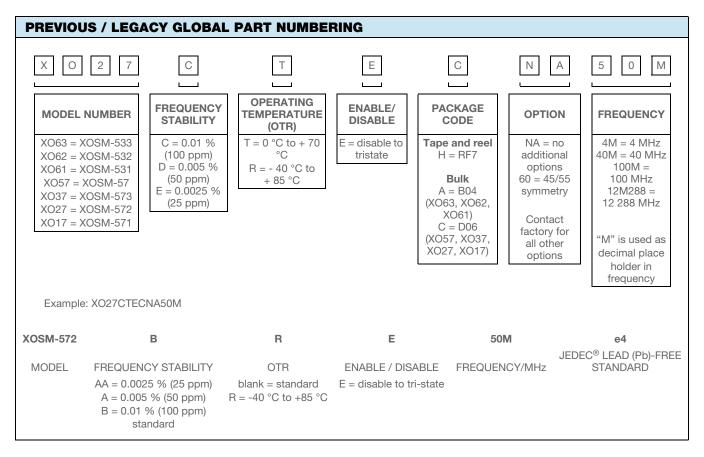
HALOGEN

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ART NU	MBER C	ONFIG	URATION	IS (to be used	d on all N	lew Desi	gns)		
хо	57	c	2	D	R	E	н	T	1 6 M 1 2 8
Oscillator	Package / Size	Logic	Voltage	Stability	Temp.	Tri-State	Package	Options	Frequency
	57	C = CMOS	2 = 2.5 V	C = ± 100 ppm D = ± 50 ppm F = ± 35 ppm	S = -10 °C to +70 °C	N = no connect E =	H = tape and reel	X = no options T = 45/55	Use "M" as decimal place holder
				$G = \pm 30 \text{ ppm}$ $G = \pm 30 \text{ ppm}$ $E = \pm 25 \text{ ppm}$ $H = \pm 20 \text{ ppm}$	R = -40 °C to +85 °C	Tri-State		Contact factory for available options	Frequency must be six digits - complete with "0" at the end

Previous / legacy part number information: still valid for existing designs; all New Designs should use the new part configuration above



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

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