



Surface Mount Oscillator



The XOSM-573 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
- TTL/HCMOS compatible
- Tape and reel
- I_R re-flow
- 3.3 V input voltage

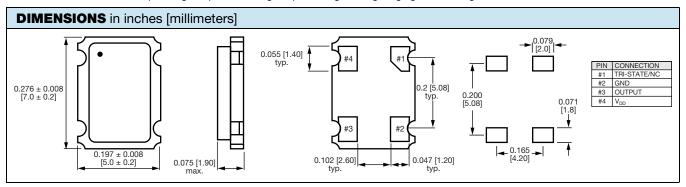


FREE

	-	_				
•	Material	categorization:	For	definitions	of	compliance
	please se	ee www.vishav.c	om/d	loc?99912		

PARAMETER	SYMBOL	CONDITION	VALUE
Frequency range	Fo	-	1.500 MHz to 100.000 MHz
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}	-	3.3 V ± 10 %
Aging (first year)		25 °C ± 3 °C	± 5 ppm
		1.500 MHz to 20.000 MHz	10 mA max.
Cumply assurant	I _{DD} -	20.001 MHz to 50.000 MHz	20 mA max.
Supply current		50.001 MHz to 67.000 MHz	30 mA max.
		67.001 MHz to 100.000 MHz	55 mA max.
Output symmetry	Sym	at ½ V _{DD}	40 %/60 % (45 %/55 % option)
	t _r /t _f	1.500 MHz to 50.000 MHz	6 ns
Rise/fall time		50.001 MHz to 80.000 MHz	4 ns
		80.001 MHz to 100.000 MHz	2 ns
Output voltage	V _{OH}	-	90 % V _{DD} min.
Output voltage	V _{OL}	-	10 % V _{DD} max.
Output load		-	2 TTL or 15 pF
Start-up time	t _s	-	10 ms max.
Die 1 tui state franction			pin 1 = H or open (output active at pin 3
Pin 1, tri-state function		-	pin 1 = L (high impedance at pin 3)

(1) Include: 25 °C tolerance, operating temperature range, input voltage change, aging, load change, shock and 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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standard

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ORDERING INFORMATION

R XOSM-573 В Ε 50M e4

MODEL FREQUENCY STABILITY OTR **ENABLE/DISABLE**

> AA = 0.0025 % (25 ppm)blank = standard

A = 0.005 % (50 ppm)B = 0.01 % (100 ppm)

 $R = -40 \, ^{\circ}\text{C}$ to $+85 \, ^{\circ}\text{C}$

E = disable to tri-state

FREQUENCY/MHz JEDEC LEAD (Pb)-FREE

standard

GLOBAL PART NUMBER

Χ 0 3 7

> FREQUENCY MODEL

Т

Е ENABLE/

С PACKAGE Ν Α

5

0 М

STABILITY

С

OTR

DISABLE

CODE

OPTIONS

FREQUENCY

GLOBAL PART NUMBERING OPTIONS

Χ Ο 5 С

Т

Ε

С

Α

0 Μ

MODEL NUMBER

XO63 = XOSM-533 XO62 = XOSM-532XO61 = XOSM-531XO57 = XOSM-57

XO37 = XOSM-573XO27 = XOSM-572XO17 = XOSM-571

FREQUENCY STABILITY

C = 0.01 %(100 ppm) D = 0.005 %(50 ppm) E = 0.0025 %

(25 ppm)

OPERATING TEMPERATURE (OTR)

 $T = 0 \,^{\circ}C \text{ to} + 70 \,^{\circ}C$ R = -40 °C to + 85 °C

ENABLE/ DISABLE

E = Disable to tristate

PACKAGE CODE

Tape and reel H = RF7

Bulk A = B04(XO63, XO62, XO61) C = D06(XO57, XO37, XO27, XO17)

OPTION

NA = Noadditional options 60 = 45/55symmetry

Contact factory for all other options

FREQUENCY

4M = 4 MHz40M = 40 MHz100M =100 MHz 12M288 = 12 288 MHz

M is used as decimal place holder in frequency

PART MARKING

Line 1: M2809XXXXX (part number) Line 2: XX.XXXXM (frequency)

Example: XO57CTECNA40M

Line 3: yywwvv (date/factory code)



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