XOSM-573

Vishay Dale



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
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

Pb
Pb-free
RoHS

COMPLIANT

HALOGEN

STANDARD ELECTRICAL SPECIFICATIONS					
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.		
Supply aurrent	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)		
		1.500 MHz to 50.000 MHz	6 ns		
Rise/fall time	t _r /t _f	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.		
Oulput voltage	V _{OL}	-	10 % V _{DD} max.		
Output load		-	2 TTL or 15 pF		
Start-up time	t _s	-	10 ms max.		
Din 1. tri stato 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 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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PART MARKING	
Line 1:	M2809XXXXX (part number)
Line 2:	XX.XXXXM (frequency)
Line 3:	yywwvv (date/factory code)

2 For technical questions, contact: <u>frequency@vishay.com</u>

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