Vishay Dale



Half Size Clock Oscillator Enable/Disable



The XOSM-52 series oscillator is half size, has Tri-state enable/disable controlled function. The metal package with pin#4 case ground acts as shielding to minimize EMI radiation.

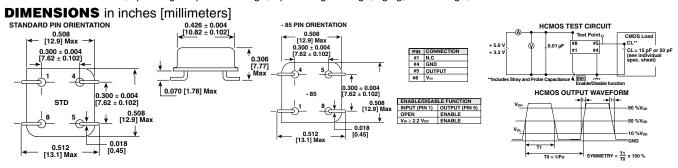
FEATURES

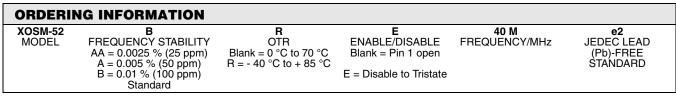
- Tri-state enable/disable
- 8 pin half size
- Industry standard
- Wide frequency range
- Low cost
- Resistance weld package
- 5 V
- Lead (Pb)-free and RoHS compliant

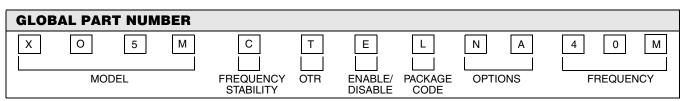


STANDARD ELECTRICAL SPECIFICATIONS								
PARAMETER	SYMBOL	CONDITION	XOSM-52					
Frequency Range	Fo		1 MHz ~ 100.00 MHz					
Frequency Stability*		All Condition*	± 25 ppm, ± 50 ppm, ± 100 ppm					
Operating Temperature Range	T _{OPR}		0 °C ~ 70 °C (- 40 °C ~ + 85 °C option)					
Storage Temperature Range	T _{STG}		- 55 °C ~ + 125 °C					
Power Supply Voltage	V_{DD}		5.0 V ± 10 %					
Aging (First Year)		25 °C ± 3 °C	± 5 ppm					
Supply Current		1 MHz to 23.999 MHz	20 mA Max					
		24.000 MHz to 49.999 MHz	30 mA Max					
	I _{DD}	50.000 MHz to 69.999 MHz	40 mA Max					
		70.000 MHz to 100.000 MHz	60 mA Max					
Output Symmetry	Sym	At 1/2 V _{DD}	40/60 % (45/55 % Option)					
Rise Time	T _r	20 % V _{DD} ~ 80 % V _{DD}	10 ns Max					
Fall Time	T _f	80 % V _{DD} ~ 20 % V _{DD}	10 ns Max					
Output Voltage	V _{OH}		90 % V _{DD} Min					
	V_{OL}		10 % V _{DD} Max					
Output Load	TTL Load		1 ~ 10 TTL					
			~ 50 M : 50 pF					
	HCMOS Load		~ 70 M : 30 pF					
			~ 100 M : 15 pF					
Start-up Time		Ts	10 ms Max					
Pin 1, tri-state function			Pin 1 = H or open Output active at pin					

* Include: 25 °C tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration.







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GLOBAL PART NUMBERING									
X O 5 2	С	Т	E	L	N A	4 0 M			
MODEL NUMBER	FREQUENCY STABILITY	OPERATING TEMPERATURE (OTR)	ENABLE/ DISABLE	PACKAGE CODE	OPTIONS	FREQUENCY			
XO53 = XO-53 XO54 = XO-54 XO34 = XO-543 XO52 = XO-52 XO32 = XO-523 XO56 = XO-56 XOVC = XOVC-23 XO5M = XOSM-52 XO63 = XOSM-533 XO62 = XOSM-532 XO61 = XOSM-531 XO57 = XOSM-57 XO37 = XOSM-573 XO27 = XOSM-573 XO27 = XOSM-572 XO17 = XOSM-571 XO55 = XOSM-555 XO35 = XOSM-553	C = 0.01 % (100 ppm) D = 0.005 % (50 ppm) E = 0.0025 % (25 ppm)	T = 0 °C to + 70 °C R = -40 °C to + 85 °C	F = Pin 1 Open E = Disable to Tristate	TAPE AND REEL H = RF7 BULK A = B04 (XO63, XO62, XO61) C = D06 (XO57, XO37, XO27, XO17) D = D07 (XO53, XO54, XO34, XO56, XOVC, XO55, XO35) L = D08 (XO52, XO32, XO5M)	NA = No Additional Options 60 = 45/55 Symmetry Contact factory for all other options	4M = 4 MHz 40M = 40 MHz 100M = 100 MHz 12M288 = 12.288 MHz M is used as decimal place holder in frequency			
Example: XO52CTELNA	40M								



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