

# Half Size Clock Oscillator Enable/Disable



## 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



RoHS  
COMPLIANT

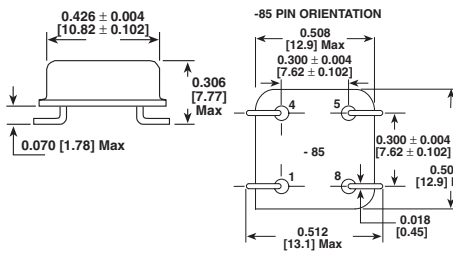
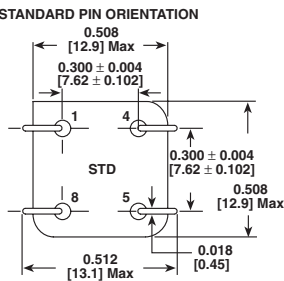
The XOSM-52 series oscillator is half size, has Tri-state enable/disable controlled function. The metal package with pin#4 case ground acts as shielding to minimize EMI radiation.

STANDARD ELECTRICAL SPECIFICATIONS			
PARAMETER	SYMBOL	CONDITION	XOSM-52
Frequency Range	$F_O$		1 MHz ~ 100.00 MHz
Frequency Stability*		All Condition*	$\pm 25$ ppm, $\pm 50$ ppm, $\pm 100$ 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 $\pm$ 10 %
Aging (First Year)		25 °C $\pm$ 3 °C	$\pm 5$ ppm
Supply Current	$I_{DD}$	1 MHz to 23.999 MHz	20 mA Max
		24.000 MHz to 49.999 MHz	30 mA Max
		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
	HCMOS Load		~ 50 M : 50 pF
			~ 70 M : 30 pF
Start-up Time		$T_s$	10 mS Max
Pin 1, tri-state function			Pin 1 = H or open... Output active at pin 5 Pin 1 = L... high impedance at pin 5

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

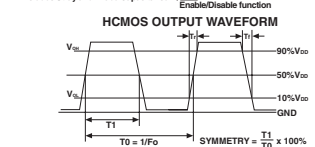
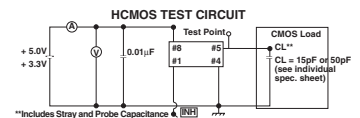
## DIMENSIONS in inches [millimeters]

### STANDARD PIN ORIENTATION



PIN	CONNECTION
#1	N.C
#4	GND
#5	OUTPUT
#8	$V_{DD}$

ENABLE/DISABLE FUNCTION	
INPUT (PIN 1)	OUTPUT (PIN 5)
OPEN	ENABLE
$V_{DD}$	ENABLE
$V_{DD}$	DISABLE



## ORDERING INFORMATION

XOSM-52 MODEL	B FREQUENCY STABILITY	R OTR	E ENABLE/DISABLE	40 M FREQUENCY/MHz	e2 JEDEC Lead (Pb)-Free STANDARD
	AA = 0.0025 % (25 ppm) A = 0.005 % (50 ppm) B = 0.01 % (100 ppm) Standard	Blank = 0 °C to 70 °C R = -40 °C to +85 °C	Blank = Pin 1 open E = - Disable to Tristate		

## GLOBAL PART NUMBER

