

Half Size Clock Oscillators 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.

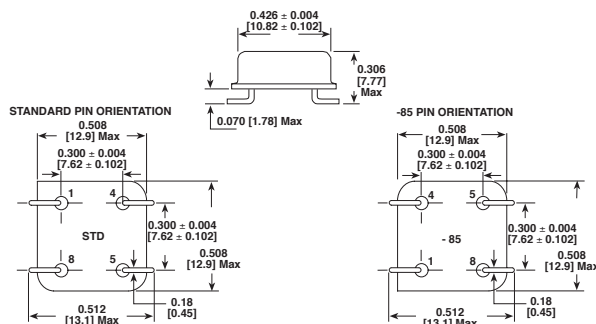
FEATURES

- Tri-state enable/disable
- 8 pin half size
- Industry standard
- Wide frequency range
- Low cost
- Resistance weld package
- 5V

STANDARD ELECTRICAL SPECIFICATIONS			
PARAMETER	SYMBOL	CONDITION	XOSM-52
Frequency Range	F_O		1MHz ~ 100.00MHz
Frequency Stability*		All Condition*	$\pm 25\text{ppm}$, $\pm 50\text{ppm}$, $\pm 100\text{ppm}$
Operating Temperature Range	T_{OPR}		$0^\circ\text{C} \sim 70^\circ\text{C}$ ($-40^\circ\text{C} \sim +85^\circ\text{C}$ option)
Storage Temperature Range	T_{STG}		$-55^\circ\text{C} \sim +125^\circ\text{C}$
Power Supply Voltage	V_{DD}		$5.0\text{V} \pm 10\%$
Aging (First Year)		$25^\circ\text{C} \pm 3^\circ\text{C}$	$\pm 5\text{ppm}$
Supply Current	I_{DD}	1MHz to 23.999MHz	20mA Max
		24.000MHz to 49.999MHz	30mA Max
		50.000MHz to 69.999MHz	40mA Max
		70.000MHz to 100.000MHz	60mA Max
Output Symmetry	Sym	At $1/2 V_{DD}$	40/60%(45/55% Option)
Rise Time	T_r	$20\%V_{DD} \sim 80\%V_{DD}$	10 nS Max
Fall Time	T_f	$80\%V_{DD} \sim 20\%V_{DD}$	10 nS Max
Output Voltage	V_{OH}		$90\%V_{DD}$ Min
	V_{OL}		$10\%V_{DD}$ Max
Output Load	TTL Load		1 ~ 10TTL
	HCMOS Load		$\sim 50\text{M} : 50\text{pF}$
			$\sim 70\text{M} : 30\text{pF}$
Start-up Time		T_s	$\sim 100\text{M} : 15\text{pF}$ 10mS Max
Pin 1, tri-state function			Pin 1 = H or open... Output active at pin 5 Pin 1 = L... high impedance at pin 5

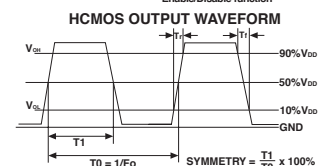
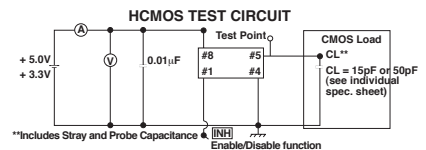
*Include: 25°C tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration.

DIMENSIONS in inches [millimeters]



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

ENABLE/DISABLE FUNCTION	
INPUT (PIN 1)	OUTPUT (PIN 5)
OPEN	ENABLE
$V_{IH} \geq 2.2 V_{CC}$	ENABLE



ORDERING INFORMATION

XOSM-52 MODEL	B FREQUENCY STABILITY	R OTR	E ENABLE/DISABLE	40M FREQUENCY/MHz
	AA = 0.0025% (25PPM) A = 0.005% (50PPM) B = 0.01% (100PPM) Standard	Blank = 0°C to $+70^\circ\text{C}$ R = -40°C to $+85^\circ\text{C}$	Blank = Pin 1 open E = - Disable to Tristate	