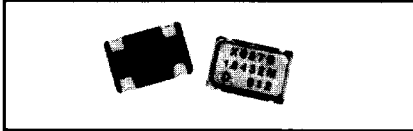




## Clock Oscillators

### Surface Mount 1.5MHz to 70.0MHz



#### FEATURES

- HCMOS/TTL compatible.
- Industrial temperature range optional.

#### ELECTRICAL SPECIFICATIONS

**Operating Temperature:** 0°C to +70°C (-40°C to +85°C optional).

**Frequency Stability:** ±.01% Standard (.0025% and .005% optional).

**Input Voltage:** +5.0VDC ±0.5V.

**Enable Input Voltage:** 4.0V minimum.

**Disable Input Voltage:** 0.8V maximum.

**Output Load:** 50pF or 10 TTL loads.

#### ENVIRONMENTAL SPECIFICATIONS

**Temperature Cycle:** -55°C to +85°C, 3 cycles.

**Shock:** 1000g, 0.35 millisecond, 1/2 sine wave, 3 shocks each plane.

**Vibration:** .06 D.A., 10 - 55Hz, 20g, 55 - 3000Hz.

**Humidity:** 85% relative humidity at +85°C, 240 hours.

STANDARD ELECTRICAL SPECIFICATIONS					
FREQUENCY RANGE (MHz)	INPUT CURRENT (mA) (Max.)	WAVEFORM SYMMETRY @ 50%Vdd	RISE AND FALL TIME (nS) (Max.)	"ZERO" LEVEL Vdd	"ONE" LEVEL Vdd
1.5 to 19.999	15	45/55	8	10%	90%
20.0 to 49.999	40	45/55	5	10%	90%
50.0 to 70.0	50	45/55	5	10%	90%

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]		PIN	CONNECTION
		1	N.C. or E/D
		2	Ground
		3	Output
		4	+5VDC
		ENABLE/DISABLE FUNCTION	
		*Pin 1 E/D	Pin 3 Output
		Open	Active
		High (1)	Active
		Low (0)	High Z

\*An internal pull-up resistor is connected to Pin 1 allowing active output if Pin 1 is left open.

#### SUGGESTED SOLDER PAD LAYOUT

A 0.01µF bypass capacitor should be placed between Vdd and GND to minimize power supply line noise.

#### PACKAGING

16mm wide tape and reel packaging for automatic assembly.

1000 pieces per reel.

HOW TO ORDER				
XOSM-57 MODEL	B FREQUENCY STABILITY	R OTR	E ENABLE/DISABLE	50M FREQUENCY/MHz
	AA = .0025% (25PPM) A = .005% (50PPM) B = .01% (100PPM) Standard	Blank = Standard R = -40°C to +85°C	Blank = Pin 1 open E = Disable to Tristate	