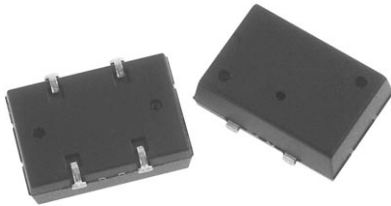


## J - Lead Plastic Clock Oscillators



The XOSM-55 series oscillator is a J-Lead plastic tri-state enable/disable controlled clock oscillator with a 5.0V power supply voltage. The J-Lead configuration and high resistance soldering temperature make it ideal for surface mount production.

### FEATURES

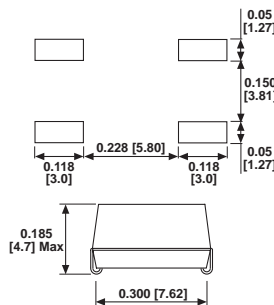
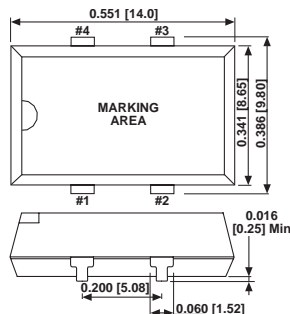
- J-Lead plastic surface mount
- SG-615 compatible
- Wide frequency range
- Low cost
- Tri-state enable/disable
- 5.0V power supply

### STANDARD ELECTRICAL SPECIFICATIONS

PARAMETER	SYMBOL	CONDITION	XOSM-55
Frequency Range	$F_O$		1MHz ~ 66.667MHz
Frequency Stability*			$\pm 50\text{ppm}$ , $\pm 100\text{ppm}$
Operating Temperature	$T_{OPR}$		$0^\circ\text{C} \sim 70^\circ\text{C}$ ( $-40^\circ\text{C} \sim +85^\circ\text{C}$ 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	$I_{DD}$	1.000MHz to 23.999MHz	20mA Max
		24.000MHz to 49.999MHz	30mA Max
		50.000MHz to 66.667MHz	40mA Max
Output Symmetry	Sym	At $0.5V_{DD}$	40/60%(45/55% Option)
Rise Time	$T_r$	$10\%V_{DD} \sim 90\%V_{DD}$	8 nS Max
Fall Time	$T_f$	$90\%V_{DD} \sim 10\%V_{DD}$	7 nS Max
Output Voltage	$V_{OH}$		$90\% V_{DD}$ Min
	$V_{OL}$		$10\% V_{DD}$ Max
Output Load	TTL Load		1 ~ 10LSTTL
	HCMOS Load		30pF Max
Start-up Time		$T_s$	10mS Max
Pin 1, tri-state function			Pin 1 = H or open.... output active at pin 3 Pin 1 = L..... high impedance at pin 3

\*Include:  $25^\circ\text{C}$  tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration.

### DIMENSIONS in inches [millimeters]



PIN	CONNECTION
#1	TRI-STATE/NC
#2	GND
#3	OUTPUT
#4	$V_{CC}$

ENABLE/DISABLE FUNCTION	
INPUT (PIN1)	OUTPUT (PIN3)
OPEN	ENABLE
$V_{IH} \geq 2.2V_{CC}$	ENABLE
$V_{IL} \leq 0.8V_{CC}$	DISABLE

\*\*\*note: A 0.01uF bypass capacitor should be placed between  $V_{CC}$ (Pin4) and GND(Pin2) to minimize power supply line noise

### ORDERING INFORMATION

XOSM-55 MODEL	B FREQUENCY STABILITY	R OTR	E ENABLE/DISABLE	50M FREQUENCY/MHz
	A = 0.005% (50PPM) B = 0.01% (100PPM) Standard	Blank = Standard R = $-40^\circ\text{C}$ to $+85^\circ\text{C}$	E = Disable to Tristate	