

J - Lead Plastic Clock Oscillators



The XOSM-553 series oscillator is a J-Lead plastic tri-state enable/disable controlled clock oscillator with a 3.3V power supply voltage. The J-Lead configuration and high resistance soldering temperature make it ideal for surface mount production.

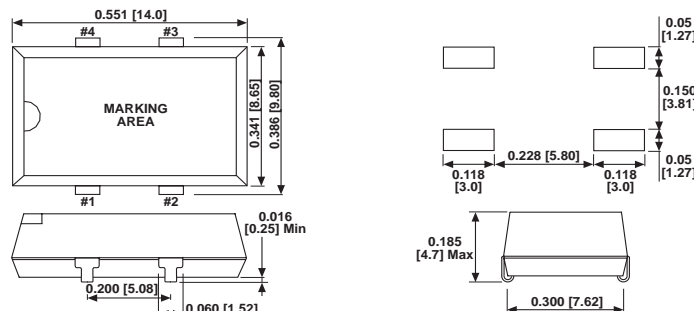
FEATURES

- J-Lead plastic surface mount
- SG-615 compatible
- Wide frequency range
- Low cost
- Tri-state enable/disable
- 3.3V power supply

STANDARD ELECTRICAL SPECIFICATIONS			
PARAMETER	SYMBOL	CONDITION	XOSM-553
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°C ~ + 85°C option)
Storage Temperature Range	T_{STG}		- 55°C ~ + 125°C
Power Supply Voltage	V_{DD}		$3.3\text{V} \pm 10\%$
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	15mA Max
		24.000MHz to 49.999MHz	20mA Max
		50.000MHz to 66.667MHz	30mA Max
Output Symmetry	Sym	At $1/2 V_{DD}$	40/60%(45/55% Option)
Rise Time	T_r	$10\%V_{DD} \sim 90\%V_{DD}$	5 nS Max
Fall Time	T_f	$90\%V_{DD} \sim 10\%V_{DD}$	5 nS Max
Output Voltage	V_{OH}		$90\% V_{DD}$ Min
	V_{OL}		$10\% V_{DD}$ Max
Output Load	TTL Load		1 ~ 10LSTTL
	HCMOS Load		15pF 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°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_{DD}

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

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

ORDERING INFORMATION

XOSM-53 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°C to + 85°C	E = Disable to Tristate	