Surface Mount Oscillator

The XOSM-532 series is an ultra miniature package clock oscillator with dimensions 5.0 x 3.2 x 1.3 mm. It is mainly used in portable PC and telecommunication devices and equipment.

FEATURES

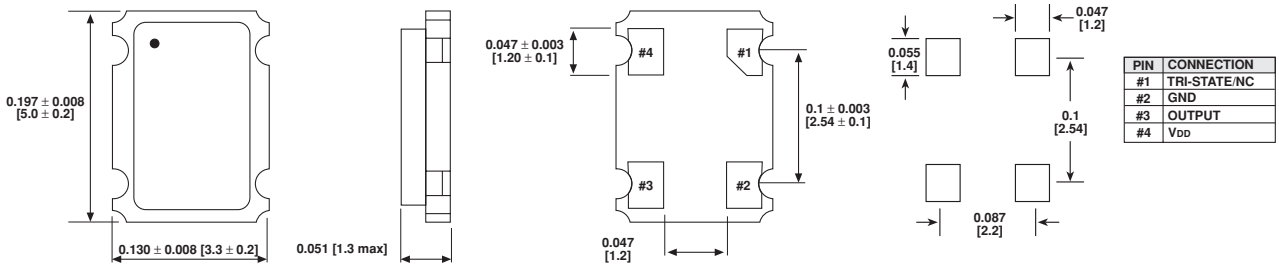
- 5 x 3.2 x 1.3 Miniature Package
- Tri-state enable/disable
- HCMOS compatible
- Tape and Reel
- IR Re-flow
- 2.5V input voltage

STANDARD ELECTRICAL SPECIFICATIONS

PARAMETER		SYMBOL	CONDITION	XOSM-532
Frequency Range		F_O		1.544MHz ~ 100.000MHz
Frequency Stability*			All Condition*	± 25ppm, ± 50ppm, ± 100ppm
Operating Temperature		T_{OPR}		0ºC ~ 70ºC (- 40ºC ~ + 85ºC option)
Storage Temperature Range		T_{STG}		- 55ºC ~ + 125ºC
Power Supply Voltage		V_{DD}		2.5V ± 10%
Aging (First Year)			25ºC ± 3ºC	± 5ppm
Supply Current		I_{DD}	1.544MHz to 9.999MHz	7mA Max
			10.000MHz to 34.999MHz	8mA Max
			35.000MHz to 49.999MHz	20mA Max
			50.000MHz to 100.000MHz	30mA Max
Output Symmetry		Sym	At $^1/_2$ V_{DD}	40/60%(45/55% Option)
Rise Time		T_r	10%V_{DD} ~ 90%V_{DD}	6 nS Max
Fall Time		T_f	90%V_{DD} ~ 10%V_{DD}	6 nS Max
Output Voltage		V_{OH}		90% V_{DD} Min
		V_{OL}		10% V_{DD} Max
Output Load	HCMOS Load			30pF Max (15pF typ.)
Start-up Time			Ts	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: 25ºC tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration.

DIMENSIONS in inches [millimeters]



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

ORDERING INFORMATION

XOSM-532	B	R	E	50M
MODEL	FREQUENCY STABILITY	OTR	ENABLE/DISABLE	FREQUENCY/MHz
	AA = 0.0025% (25PPM) A = 0.005% (50PPM) B = 0.01% (100PPM) Standard	Blank = Standard R = - 40°C to + 85°C	E = Disable to Tristate	