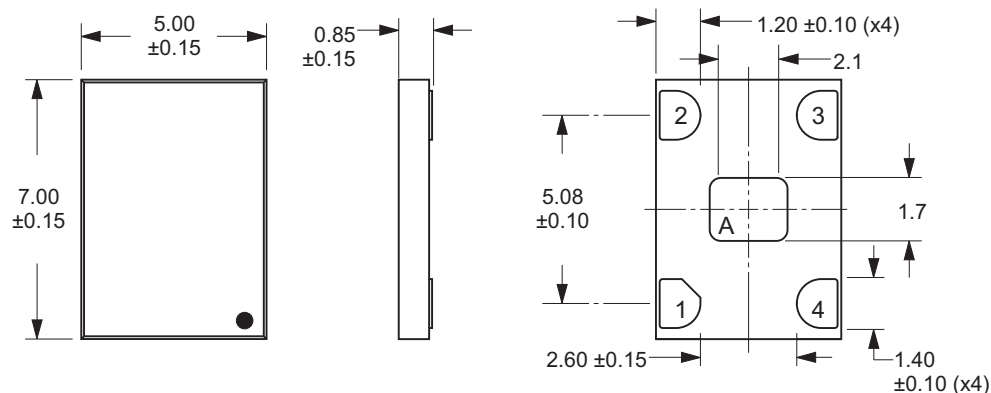


JOYOUS OSCILLATOR

ZXM1 SERIES CERAMIC SMD 3.3V/2.5V/1.8V OSCILLATOR

This Joyous “Sonic Series” is designed for our cost conscientious customers who demand quick turn production without quick turn prices. Standard and custom specifications are available in as little as 3 days.



Pin #	Connection
1	Tri-State
2	Case Ground
3	Output
4	Supply Voltage

Note A: Center Paddle is No Connect.

SPECIFICATIONS

Frequency Range	1.000MHz to 125.000MHz
Frequency Tolerance/Stability	(Inclusive of all conditions: Tolerance Stability, Output Load, Supply Voltage and First Year Aging at 25°C) ±50ppm Maximum
Operating Temperature Range	-40°C to 85°C
Supply Voltage (VDD)	3.3Vdc ±0.3Vdc 2.5Vdc ±0.125Vdc 1.8Vdc ±0.09Vdc
Input Current	20mA Maximum (1.8Vdc) 22mA Maximum (2.5Vdc) 24mA Maximum (3.3Vdc)
Output Voltage Logic High (VOH)	90% of Vdd Minimum
Output Voltage Logic Low (VOL)	10% of Vdd Maximum
Rise Time/Fall Time	3nSec Maximum (Measured from 20% to 80% of waveform)
Duty Cycle	50 ±5(%) Measured at 50% of waveform
Load Drive Capability	15pF HCMOS Load Maximum
Output Control Voltage	Tri-State (Disabled Output: High Impedance)
Tri-State Input Voltage	70% of Vdd Minimum or No Connect to Enable Output, 30% of Vdd Maximum to Disable Output (High Impedance)
Standby Current	30µA Maximum
Period Jitter (Peak to Peak)	200pSec Typical (≤10.000MHz) 100pSec Typical (>10.000MHz)
Start Up Time	50mSec Maximum
Storage Temperature Range	-40°C to 125°C

PART NUMBERING GUIDE

<i>ZXM1</i>	<i>50</i>	<i>B</i>	<i>A</i>	-	<i>25.000</i>	<i>M</i>	<i>T</i>
Series	Frequency Tolerance/ Stability	Operating Temperature Range	Power Supply		Frequency	Frequency Unit of Measure	Packaging Options
ZXM1	50 ±50ppm	B = -40°C to 85°C	A = 3.3Vdc B = 2.5Vdc C = 1.8Vdc		Entire Frequency With Decimal	M = Mhz	T = Tape and Reel B = Bulk