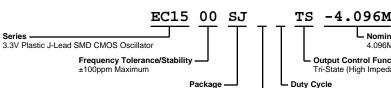
EC1500SJTS-4.096M





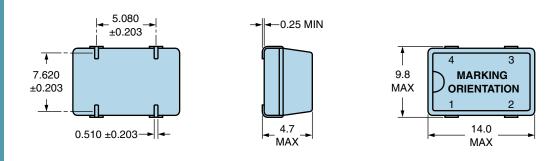
TS	-4.096M
Τ	Nominal Frequency 4.096MHz
	utput Control Function i-State (High Impedance)

	Package Duty Cycle
	Operating Temperature Range 50 ±10(%) 0°C to +70°C
ELECTRICAL SPECIFICA	ΓΙΟΝS
Nominal Frequency	4.096MHz
Frequency Tolerance/Stability	±100ppm Maximum (Inclusive of all conditions: Calibration Tolerance at 25°C, Frequency Stability over the Operating Temperature Range, Supply Voltage Change, Output Load Change, First Year Aging at 25°C, Shock, and Vibration)
Aging at 25°C	±5ppm/year Maximum
Operating Temperature Range	0°C to +70°C
Supply Voltage	3.3Vdc ±10%
Input Current	10mA Maximum
Output Voltage Logic High (Voh)	Vdd-0.4Vdc Minimum , IOH = -8mA
Output Voltage Logic Low (Vol)	0.4Vdc Maximum, IOL = +8mA
Rise/Fall Time	5nSec Maximum (Measured over 10% to 90% of waveform)
Duty Cycle	50 ±10(%) (Measured at 50% of waveform)
Load Drive Capability	15pF HCMOS Load Maximum
Output Logic Type	HCMOS
Output Control Function	Tri-State (High Impedance)
Tri-State Input Voltage (Vih and Vil)	+2.0Vdc Minimum to enable output, +0.8Vdc Maximum to disable output (High Impedance), No Connect to enable output.
Absolute Clock Jitter	±100pSec Maximum
One Sigma Clock Period Jitter	±25pSec Maximum
Start Up Time	4mSec Maximum
Storage Temperature Range	-55°C to +125°C
ENVIRONMENTAL & MEC	HANICAL SPECIFICATIONS
Fine Leak Test	MIL-STD-883, Method 1014, Condition A

Fine Leak Test	MIL-STD-883, Method 1014, Condition A
Gross Leak Test	MIL-STD-883, Method 1014, Condition C
Mechanical Shock	MIL-STD-202, Method 213, Condition C
Resistance to Soldering Heat	MIL-STD-202, Method 210
Resistance to Solvents	MIL-STD-202, Method 215
Solderability	MIL-STD-883, Method 2003
Temperature Cycling	MIL-STD-883, Method 1010
Vibration	MIL-STD-883, Method 2007, Condition A

EC1500SJTS-4.096M

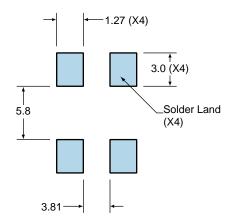
MECHANICAL DIMENSIONS (all dimensions in millimeters)



PIN	CONNECTION
1	Tri-State
2	Ground
3	Output
4	Supply Voltage
LINE	MARKING
1	ECLIPTEK
1 2	ECLIPTEK 4.096M

Suggested Solder Pad Layout

All Dimensions in Millimeters



All Tolerances are ±0.1





Recommended Solder Reflow Methods

EC1500SJTS-4.096M



Low Temperature Infrared/Convection 240°C

T _s MAX to T _L (Ramp-up Rate)	5°C/second Maximum	
Preheat		
- Temperature Minimum (Ts MIN)	N/A	
- Temperature Typical (T _s TYP)	150°C	
- Temperature Maximum (T _s MAX)	N/A	
- Time (t _s MIN)	60 - 120 Seconds	
Ramp-up Rate (T⊾ to T _P)	5°C/second Maximum	
Time Maintained Above:		
· Temperature (T∟)	150°C	
· Time (t∟)	200 Seconds Maximum	
Peak Temperature (T _P)	240°C Maximum	
arget Peak Temperature (T _P Target)	240°C Maximum 1 Time / 230°C Maximum 2 Times	
Fime within 5°C of actual peak (t _ρ)	10 seconds Maximum 2 Times / 80 seconds Maximum 1 Time	
Ramp-down Rate	5°C/second Maximum	
Time 25°C to Peak Temperature (t)	N/A	
Moisture Sensitivity Level	Level 1	

Low Temperature Manual Soldering

185°C Maximum for 10 seconds Maximum, 2 times Maximum.

High Temperature Manual Soldering

260°C Maximum for 5 seconds Maximum, 2 times Maximum.