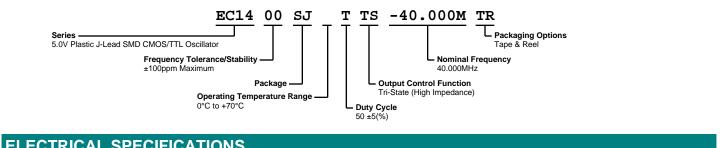
EC1400SJTTS-40.000M TR



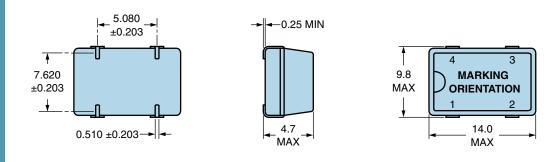


ELECTRICAL SPECIFICA	IONS
Nominal Frequency	40.000MHz
Frequency Tolerance/Stability	±100ppm Maximum (Inclusive of all conditions: Calibration Tolerance at 25°C, Frequency Stability over the Operating Temperature Range, Supply Voltage Change, Output Load Change, First Year Aging at 25°C, Shock, and Vibration)
Aging at 25°C	±5ppm/year Maximum
Operating Temperature Range	0°C to +70°C
Supply Voltage	5.0Vdc ±10%
Input Current	35mA Maximum
Output Voltage Logic High (Voh)	Vdd-0.5Vdc Minimum with HCMOS Load, 2.4Vdc Minimum with TTL Load, IOH = -16mA
Output Voltage Logic Low (Vol)	0.4Vdc Maximum with TTL Load, 0.5Vdc Maximum with HCMOS Load, IOL = +16mA
Rise/Fall Time	8nSec Maximum (Measured over 20% to 80% of waveform with HCMOS load or from 0.4Vdc to 2.4Vdc with TTL load.)
Duty Cycle	50 \pm 5(%) (Measured at 1.4Vdc with HCMOS Load or with TTL Load)
Load Drive Capability	10TTL or 50pF 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	10mSec Maximum
Storage Temperature Range	-55°C to +125°C
ENVIRONMENTAL & MEC	HANICAL SPECIFICATIONS
Fine Leak Test	MIL-STD-883, Method 1014, Condition A
Gross Look Tost	MIL STD 882 Mothed 1014 Condition C

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

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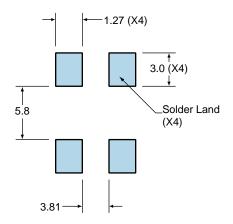
MECHANICAL DIMENSIONS (all dimensions in millimeters)



PIN	CONNECTION
1	Tri-State
2	Ground
3	Output
4	Supply Voltage
LINE	MARKING
1	ECLIPTEK
2	
2	40.000M

Suggested Solder Pad Layout

All Dimensions in Millimeters



All Tolerances are ±0.1

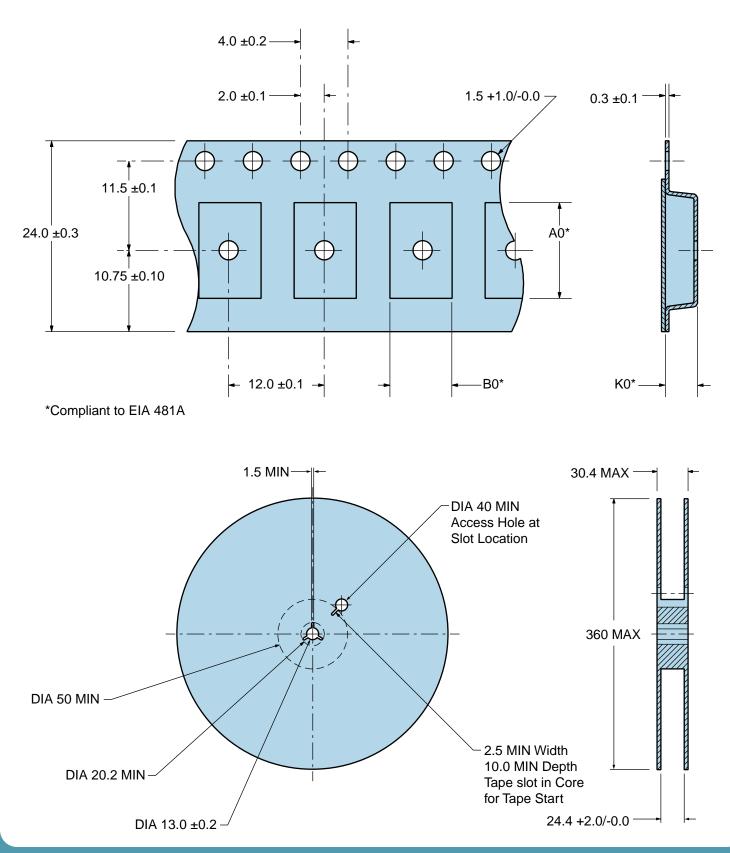


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Tape & Reel Dimensions

Quantity Per Reel: 1,000 units

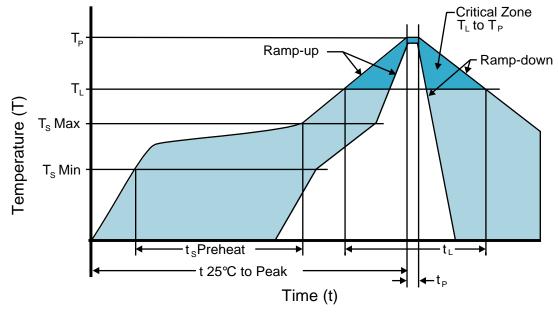


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Recommended Solder Reflow Methods

EC1400SJTTS-40.000M TR



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.