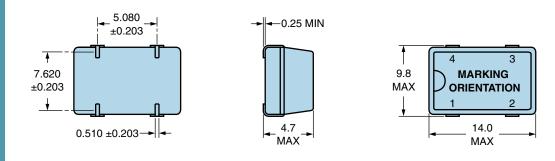


Nominal Frequency	36.250MHz
Frequency Tolerance/Stability	±100ppm Maximum (Inclusive of all conditions: Calibration Tolerance at 25°C, Frequency Stability over the Operating Temperature Range,Supply Voltage Change, Output Load Change, First Year Aging at 25°C, Shock, and Vibration)
Aging at 25°C	±5ppm/year Maximum
Operating Temperature Range	-20°C to +70°C
Supply Voltage	3.3Vdc ±0.3Vdc
Input Current	28mA Maximum (Unloaded)
Output Voltage Logic High (Voh)	Vdd-0.4Vdc Minimum, IOH = -8mA
Output Voltage Logic Low (Vol)	0.4Vdc Maximum, IOL +8mA
Rise/Fall Time	4nSec Maximum (Measured at 20% to 80% of waveform)
Duty Cycle	50 ±10(%) (Measured at 50% of waveform)
Load Drive Capability	30pF Maximum
Output Logic Type	CMOS
Pin 1 Connection	Power Down (Disable Output: Logic Low)
Pin 1 Input Voltage (Vih and Vil)	70% of Vdd Minimum to enable output, 20% of Vdd Maximum to disable output, No Connect to enable output.
Standby Current	20μA Maximum (Pin 1 = Ground)
Disable Current	16mA Maximum (Pin 1 = Ground)
Absolute Clock Jitter	±125pSec Maximum, ±75pSec Typical
One Sigma Clock Period Jitter	±40pSec Maximum
Start Up Time	10mSec Maximum
Storage Temperature Range	-55°C to +125°C

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

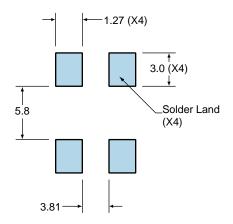
MECHANICAL DIMENSIONS (all dimensions in millimeters)



PIN	CONNECTION
1	Power Down (Logic Low)
2	Ground
3	Output
4	Supply Voltage
LINE	MARKING
1	ECLIPTEK
1 2 3	

Suggested Solder Pad Layout

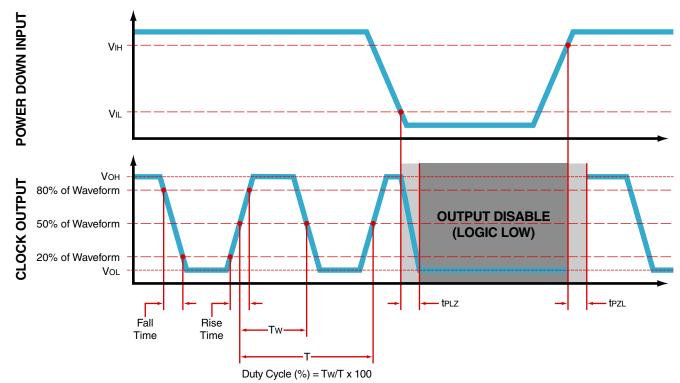
All Dimensions in Millimeters



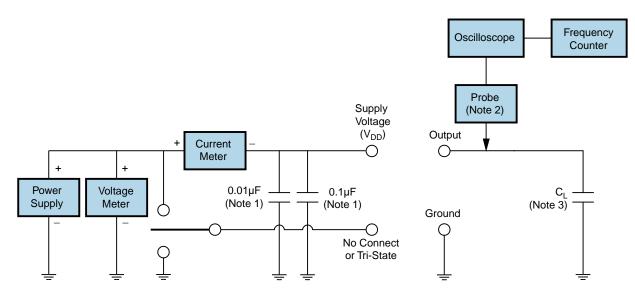
All Tolerances are ±0.1



OUTPUT WAVEFORM & TIMING DIAGRAM



Test Circuit for CMOS Output



Note 1: An external 0.1μ F low frequency tantalum bypass capacitor in parallel with a 0.01μ F high frequency ceramic bypass capacitor close to the package ground and V_{DD} pin is required.

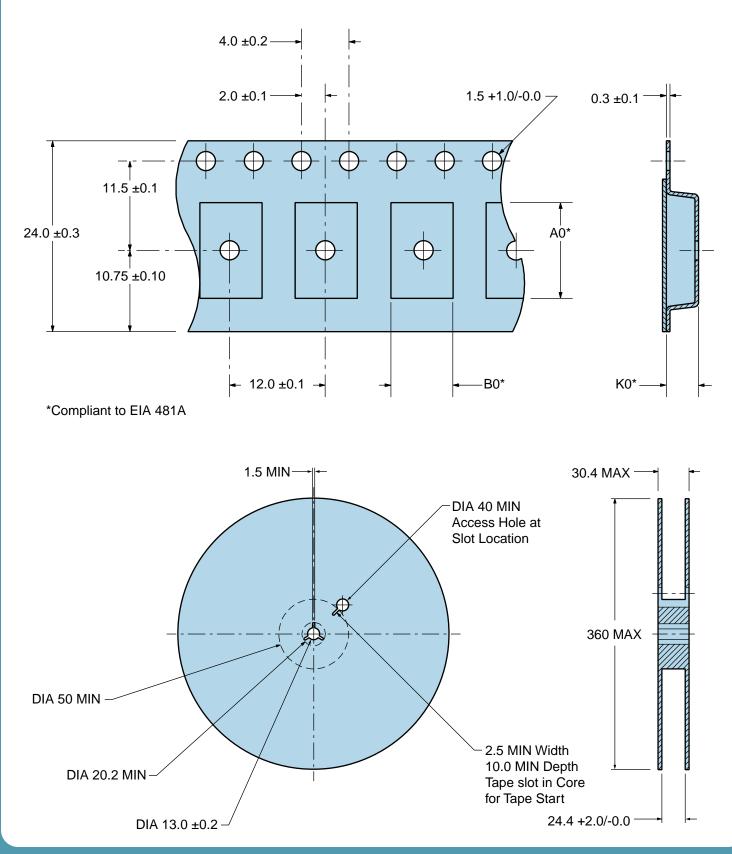
Note 2: A low capacitance (<12pF), 10X attenuation factor, high impedance (>10Mohms), and high bandwidth (>300MHz) passive probe is recommended.

Note 3: Capacitance value C_L includes sum of all probe and fixture capacitance.



Tape & Reel Dimensions

Quantity Per Reel: 1,000 units

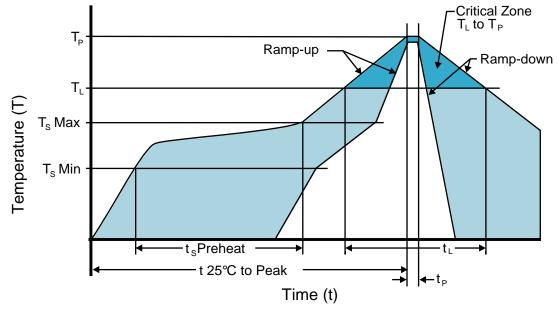


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Recommended Solder Reflow Methods

EP1500SJPD-36.250M 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.