SaRonix

Crystal Clock Oscillator

5V, ACMOS, TTL, SMD

S1228 Series

Technical Data



Description

A crystal controlled oscillator, with output logic levels compatible with ACMOS and TTL logic families. The device is moulded in a plastic, 6-pin, SMD, J leaded package that is ideal for today's automated assembly environments.

Applications

- Compact, plastic-moulded surface mountable package
- ACMOS and TTL compatible
- Tri-State output
- Ideally suited for use with contemporary MPU's and custom ASIC's

Output Waveform



Frequency Range:	32 MHz to 125 MHz
Frequency Stability:	See Part Numbering Guide: ±50ppm to ±130ppm over all conditions: calibration tolerance, operating temperature, input voltage, load, shock and vibration.
Aging @ 25°C:	±10ppm max
Temperature Range:	
Operating: Storage:	0 to +70°C, 0 to +85°C, -40 to +85°C, See Part Numbering Guide -55 to +125°C
Supply Voltage:	
Recommended Operating:	5V ±10%
Supply Current:	35mA max, 32 to 70 MHz 50mA max, 70+ to 125 MHz
Output:	
Symmetry: Rise & Fall Times: Logic 0: Logic 1: Load: Period Jitter RMS:	See Part Numbering Guide and Output Waveform 1.5ns max measured 0.5 to 2.5V 10% V_{DD} max 80% V_{DD} min 5 MTTL, 32 to 70 MHz 50 Ω AC, 70+ to 125 MHz 13ps max 32 to 72 MHz
	20ps max 72+ to 125 MHz, 0 to +70°C 25ps max, 72+ to 125 MHz, -40 to +85°C
Mechanical:	
Shock: Solderability: Terminal Strength: Vibration: Resistance to Soldering Heat:	MIL-STD-883, Method 2002, Condition B MIL-STD-883, Method 2003 MIL-STD-202, Method 211, Conditions A & C MIL-STD-883, Method 2007, Condition A MIL-STD-202, Method 210, Condition I or J
Environmental:	
Thermal Shock: Moisture Resistance:	MIL-STD-883, Method 1011, Condition A MIL-STD-883, Method 1004
Solder Reflow Guide	



1 - 2 minutes

10 sec max

DS-152 REV D

3.17

Time



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