NEW PRODUCT



Crystal Clock Oscillator

5V, HCMOS, TTL, SMD

S1615 Series

Technical Data





Description

The S1615 Series are crystal-controlled, low-current oscillators providing precise rise and fall times to drive high performance applications. The sub-miniature, low profile leadless ceramic package has gold-plated contact pads, ideal for today's pick-and-place SMT environments.

Applications & Features

- Fibre Channel 106.25MHz
- Perfect for PCs; Notebook, Palmtop Computers; Portable Applications; PCMCIA Cards, or anywhere small size, low power, surface mountability are a priority
- Tri-State Standard
- 1.9mm high ceramic package
- 5V operation
- HCMOS & TTL compatible
- Available on tape & reel; 16mm tape, 500pcs per reel

Solder Reflow Guide



Frequency Range:	1.544 MHz to 106.25 MHz
Frequency Stability:	± 20 , ± 25 , ± 50 or ± 100 ppm over all conditions; calibration tolerance, operating temperature, input voltage change, load change, aging (1 year @ 25° C average ambient operating temperature), shock and vibration.
Temperature Range:	
Operating: Storage:	-10 to +70°C, -40 to +85°C -55 to +125°C
Supply Voltage:	5V ±10%
Supply Current:	27mA max 1.544 to 32 MHz 50mA max 32+ to 50 MHz 65mA max 50+ to 106.25 MHz
Output:	
Symmetry:	45/55 % max @ 50% VDD, -40 to +85°C, 1.544 to 80 MHz 45/55 % max @ 50% VDD, -10 to +70°C, 80+ to 106.25 MHz 40/60 % max @ 50% VDD, -40 to +85°C 40/60 % max @ 1.5V
Rise & Fall Times:	8ns max 1.544 to 50 MHz @ 20% to 80% V _{DD} 5ns max 50+ to 70 MHz 3ns max 70+ to 106.25 MHz 5ns max 1.544 to 70 MHz @ 0.4 to 2.4V
Logic 0:	2ns max 70+ to 106.25 MHz 10% VDD max 0.4V max @ TTL
Logic 1:	90% VDD min, 3.9V min @ TTL
Load: Period Jitter RMS:	50pF to 50 MHz, 30pF 50+ to 70 MHZ, 15pF 70+ MHz, 10TTL 5ps max
Mechanical: Shock:	MIL-STD-883, Method 2002, Condition B
Solderability:	MIL-STD-883, Method 2003
Vibration: Solvent Resistance:	MIL-S1D-883, Method 2007, Condition A MIL-STD-202 Method 215
Terminal Strength:	MIL-STD-883, Method 2004, Condition D
Resitance to Soldering Heat:	MIL-STD-202, Method 210, Condition I or J
Environmental:	
Thermal Shock:	MIL-STD-883, Method 1011, Condition A
Moisture Resistance:	MIL-STD-883, Method 1004
Part Numbering Guide	
	S 1615 C - 50.0000 (T)
Saronix ————	
Series	full reel increments only
	Frequency (MHz)

Stability Tolerance -

AA = ±20ppm, -10 to +70°C (certain frequencies only, consult SaRonix) A = ±25ppm, -10 to +70°C (certain frequencies only, consult SaRonix)

- $B = \pm 50$ ppm, -10 to +70°C
- $C = \pm 100$ ppm, -10 to +70°C
- $E = \pm 50$ ppm, -40 to +85°C
 - $F = \pm 100$ ppm, -40 to +85°C







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