

3.3V and 5.0V, Surface Mount, Plastic, Tristate HCMOS Oscillators

SM913 • SM915

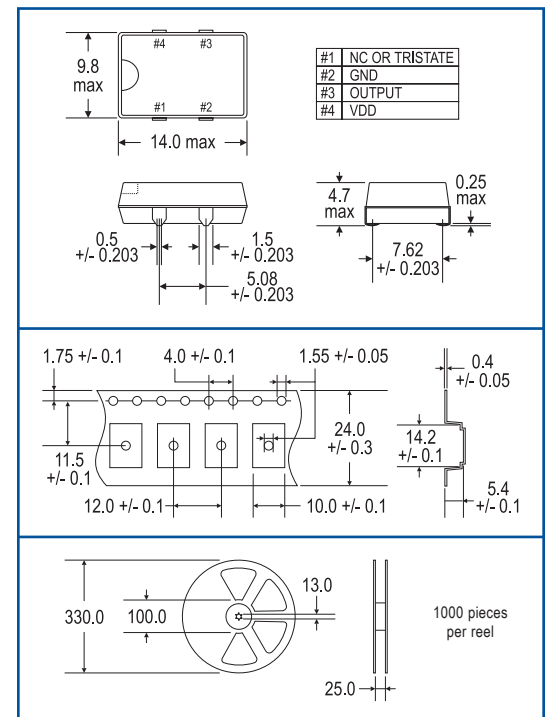
FEATURES

- TTL/CMOS compatible
- Tristate enable/disable
- Reflow solderable at 260°C for 10 secs
- 24.0mm Tape (1000 pcs/reel)

APPLICATIONS

- PDAs
- ATM
- Networking
- Laptops
- Cameras
- Wireless RF
- Controller Boards
- Disk & Tape Drives

| SPECIFICATIONS | SM913 | SM915 |
|-----------------------------|--|----------------|
| Frequency Range | 1.0 MHz to 66.667 MHz | |
| Supply Voltage | 3.3 VDC ± 0.3V | 5.0 VDC ± 0.5V |
| Input Current | 10 ~ 35 mA max | 23 ~ 50 mA max |
| Load Capacitance | 30 pF max | 50 pF max |
| Oper Temp Range | 0°C to 70°C std (-40°C to 85°C avail) | |
| Storage Temp Range | -55°C to 125°C | |
| Frequency Stability | ±50 ppm; ±100 ppm | |
| Logic 1 Level (TTL) (HCMOS) | 2.4 Vdc min 2.7 Vdc min | 0.5 Vdc min |
| Logic 0 Level (TTL) (HCMOS) | 0.4 Vdc max 0.5 Vdc max | |
| Rise and Fall Time | 8 nS max (0.4V to 2.4V/TTL; 20% to 80% HCMOS) | |
| Start Up Time | 1.0 to 26.0 MHz = 4 mS max 26.0 MHz & over = 10 mS max | |
| Symmetry | 50/50 ± 10% std (50/50 ± 5% avail) | |
| Jitter (1 sigma) | 25 pS max | |
| Humidity | 85% RH, 85°C, 48 Hours | |
| Solderability | MIL-STD-202F Method 208E | |
| Reflow Solderability | 260°C for 10 seconds | |
| Vibration | MIL-STD-202F Method 204, 35G, 50 to 2000 Hz | |
| Shock | MIL-STD-202F Method 213B Test Cond E, 100G, 1/2 Sine Wave | |
| Pin #1 | Tristate Enable/Disable | |
| Packaging | 24mm Tape & Reel (1000pcs/reel) std | |



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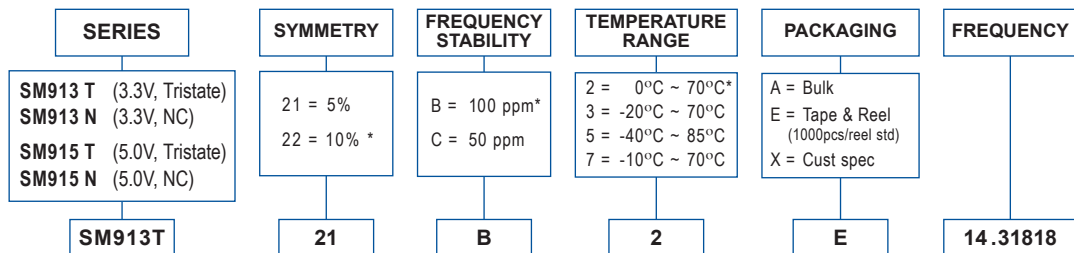
Units = mm

PART NUMBERING KEY

Sample Part Number

SM913T21B2E =
@ 14.31818 MHz

* Standard



Use full descriptive part number when ordering. Parts will be marked with series and frequency only.