Crystal Oscillator

SCO-103

ELECTRICAL SPECIFICATIONS		
MODEL		SCO-103 Series
Frequency Range		1.000 to 157.00 MHz
Operating Temperature Range	±100, ±50 ppm or ±25, ±20 ppm	0 to +70℃ or −40 to +85℃
Storage Temperature Range		−55 to +125℃
Frequency Tolerance/Stability	Inclusive of Operating Temperature Range, Supply Voltage, and Load	±100, ±50 ppm or ±25, ±20 ppm Max
Supply Voltage(V_{DD})		3.3V_{DC} ±10%(*)
Input Current	1.000 to 34.999MHz 35.000 to 60.000MHz 60.001 to 99.999MHz 100.000 to 157.000MHz	16mA Max 25mA Max 40mA Max 50mA Max
Output Voltage Logic High(V_{OH})	w/TTL Load w/HCMOS Load	2.4V_{DC} Min 90% of V_{DD} Min
Output Voltage Logic Low(V_{OL})	w/TTL Load w/HCMOS Load	0.4V_{DC} Max 10% of V_{DD} Max
Rise / Fall Time	1.000 to 34.999MHz 35.000 to 99.999MHz 100.000 to 157.000MHz	10nsec Max 5nsec Max 2.5nsec Max
Duty Cycle	at 50% of WaveForm w/HCMOS Load or 1.4V_{DC} w/TTL Load	50 ±10% (STD) 50 ±5% (Optional)
Load drive Capability		10TTL Load or 15pF HCMOS Load(STD)

Pin 1 Tri-State Input Voltage	No Connection V_{IH} : ≥ 2.0VDC V_{IL} : ≤ 0.8VDC	Enables Output Enables Output Disables Output: High Impedance
Aging (at 25℃)		±3 ppm, ±5 ppm/year Max
Start up Time		10msec Max
Period Jitter: Absolute		±100psec Max
Period Jitter: One Sigma		±25psec Max

Ceramic SMD package

3.3V supply voltage(2.5V available)

HCMOS / TTL output

Tri-state function available

Reflow soldering is possible

Available on tape and reel

MECHANICAL DIMENSIONS

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