



SCO-10

CERAMIC SMD TYPE

7X5 SMD OSCILLATOR

SCO-10 Series

- Ceramic SMD package
- 5.0, 3.3, 2.5, 1.8V supply voltage
- HCMOS/TTL output
- Tri-state function available
- Reflow soldering is possible
- Available on tape and reel

ELECTRICAL SPECIFICATIONS

Frequency Range	1.000 to 106.250MHz(5V), 1.000 to 200MHz(3.3, 2.5, 1.8V)	
Operating Temperature Range	0 to +70°C or -40 to +85°C	
Storage Temperature Range	-55 to +125°C	
Frequency Tolerance / Stability	Inclusive of Operating Temperature Range, Supply Voltage, and Load	± 100, ± 50ppm or ± 25, ± 20ppm
Supply Voltage(V _{DD})	5.0, 3.3, 2.5, 1.8V _{DC} ± 10%	
Input Current	1.000 to 34.999MHz 35.000 to 60.000MHz 60.001 to 99.999MHz 100.000 to 106.250MHz 106.251 to 200.000MHz	25(5V), 16(3.3V), 10(2.5V), 8mA(1.8V) max. 50(5V), 25(3.3V), 20(2.5V), 15mA(1.8V) max. 60(5V), 40(3.3V), 30(2.5V), 25mA(1.8V) max. 80(5V), 50(3.3V), 40(2.5V), 35mA(1.8V) max. 50(3.3V), 40(2.5V), 35mA(1.8V) max.
Output Voltage Logic High(V _{OH})	w/TTL Load w/HCMOS Load	2.4V min. 90% of V _{DD} min.
Output Voltage Logic Low(V _{OL})	w/TTL Load w/HCMOS Load	0.4V max. 10% of V _{DD} max.
Rise / Fall Time	1.000 to 34.999MHz 35.000 to 60.000MHz 60.001 to 99.999MHz 100.000 to 200.000MHz	10ns max. 8ns max. 5ns max. 2.5ns 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	10 TTL Load 15pF HCMOS Load(STD)	
Pin 1 Tri-state Input Voltage	No Connection V _{IH} : ≥ 0.7V _{DD} V _{IL} : ≤ 0.3V _{DD}	Enable Output Enable Output Disable Output : High Impedance
Aging (at 25°C)	± 3ppm, ± 5ppm/year max.	
Start-up Time	10ms max.	
Period Jitter : pk-pk	100ps max.	
Period Jitter : One Sigma	25ps max.	

MECHANICAL DIMENSIONS

