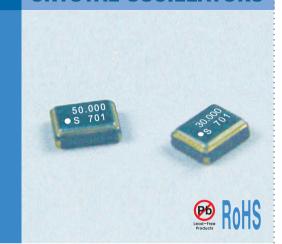
CRYSTAL OSCILLATORS

CERAMIC SMD TYPE SCO-32

- Ceramic SMD package 0.9 / 1.2 / 1.5 / 1.8 / 2.5 / 3.3 supply voltage
- HCMOS output
- Stability to ± 20 ppm
- Tri-state function available
- Reflow soldering is possible
- Available on tape and reel



■ ELECTRICAL SPECIFICATIONS

Frequency Range	1.000 to 60.000MHz		
Operating Temperature Range	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	\pm 100ppm, \pm 50ppm or \pm 25ppm, \pm 20ppm	
Supply Voltage(VDD)	0.9, 1.2, 1.5 $$ Vpc \pm 5% , 1.8, 2.5, 3.3 $$ Vpc \pm 10%		
Input Current	10	10 mA max.	
Output Voltage Logic High(Vон)	w/HCMOS Load	90% of V _{DD} min.	
Output Voltage Logic Low(VoL)	w/HCMOS Load	10% of Vpb max.	
Rise / Fall Time	1.000 to 60.000MHz	10ns max.	
Duty Cycle		50 ±10% (STD)	
		50 \pm 5% (Optional)	
Load Drive Capability	15pF HCN	15pF HCMOS Load(STD)	
Pin 1 Tri-state Input Voltage	No Connection	Enable Output	
	V _{IH} : ≥ 0.7V _{DD}	Enable Output	
	VIL:≤0.3VDD	Disable Output : High Impedance	
Aging (at 25℃)	\pm 3ppm, \pm 5ppm/year max.		
Start-up Time	10ms max.		
Period Jitter : pk-pk	±10	± 100 ps max.	
Period Jitter : One Sigma	± 2	\pm 25ps max.	
Phase Jitter(12kHz to 20MHz)	1	1 ps max.	

■ MECHANICAL DIMENSIONS

(mm)

■ LAND PATTERN

