

# 5X3.2 SMD OSCILLATOR

## SCO-53 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



SCO-53

CERAMIC SMD TYPE

### ELECTRICAL SPECIFICATIONS

Frequency Range	1.000 to 50.000MHz	
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	$\pm 100, \pm 50\text{ppm}$ or $\pm 25, \pm 20\text{ppm}$
Supply Voltage(V <sub>DD</sub> )	5.0, 3.3, 2.5, 1.8V <sub>DC</sub> $\pm 10\%$	
Input Current	30(5V), 25(3.3V), 15(2.5V), 10mA(1.8V) max.	
Output Voltage Logic High(V <sub>OH</sub> )	w/TTL Load w/HCMOS Load	2.4V min. 90% of V <sub>DD</sub> min.
Output Voltage Logic Low(V <sub>OL</sub> )	w/TTL Load w/HCMOS Load	0.4V max. 10% of V <sub>DD</sub> max.
Rise / Fall Time	1.000 to 50.000MHz	10ns max.
Duty Cycle	at 50% of Waveform w/HCMOS Load or 1.4V <sub>DC</sub> w/TTL Load	50 $\pm$ 10% (STD) 50 $\pm$ 5% (Optional)
Load Drive Capability	10 TTL Load or 15pF HCMOS Load(STD)	
Pin 1 Tri-state Input Voltage	No Connection V <sub>IH</sub> : $\geq 0.7V_{DD}$ V <sub>IL</sub> : $\leq 0.3V_{DD}$	Enable Output Enable Output Disable Output : High Impedance
Aging (at 25°C)	$\pm 3\text{ppm}, \pm 5\text{ppm/year max.}$	
Start-up Time	10ms max.	
Period Jitter : pk-pk	100ps max.	
Period Jitter : One Sigma	25ps max.	

### MECHANICAL DIMENSIONS

