

# PRODUKT-INFO

## SCO-32 SMD OSCILLATOR

### FEATURES

1. Ultra miniature ceramic package clock oscillator.
2. Tri-State enable / disable.
3. TTL/HCMOS compatible.
4. Tape and Reel.
5. IR Re-flow.
6. 5.0V, 3.3V, 2.8V and 1.8V option.

### APPLICATION

Portable PC, telecommunication devices and equipment.

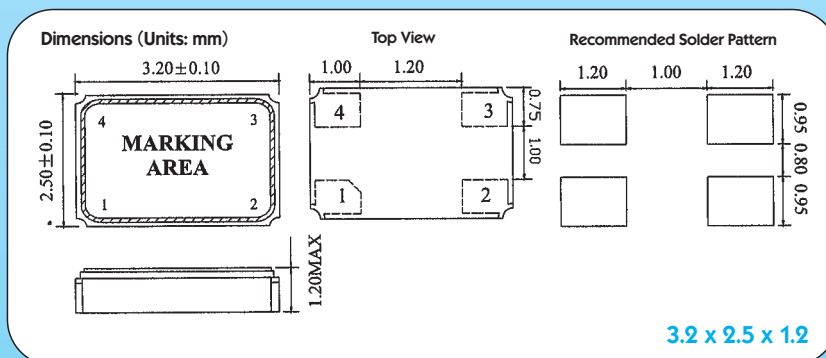


Actual Size



ELECTRICAL SPECIFICATIONS					
Model	Condition	SCO-32 (5.0 V)	SCO-32 (3.3 V)	SCO-32 (2.8 V)	SCO-32 (1.8 V)
Frequency Range	All Conditions*	1.0 MHz ~ 54.00 MHz			
Frequency Stability		±25 ppm / ±50 ppm / ±100 ppm			
Operating Temperature Range		-20°C to +70°C, -40°C to +85°C option			
Storage Temperature Range		-55°C to +125°C			
Power Supply Voltage		5.0 V ±10%	3.3 V ±10%	2.8 V ±10%	1.8 V ±10%
Supply Current	1.0 MHz ~ 9.999 MHz	15 mA max.	8 mA max.	7 mA max.	6 mA max.
	10.0 MHz ~ 34.999 MHz	20 mA max.	10 mA max.	8 mA max.	7 mA max.
	35.0 MHz ~ 49.999 MHz	35 mA max.	25 mA max.	20 mA max.	15 mA max.
	50.0 MHz ~ 54.0 MHz	40 mA max.	35 mA max.	30 mA max.	25 mA max.
Output Symmetry	at 1/2 V <sub>DD</sub>	40% ~ 60%, 45% ~ 55% option			
Rise Time	10% V <sub>DD</sub> ~ 90% V <sub>DD</sub>	5 ns max.	5 ns max.	6 ns max.	7 ns max.
Fall Time	90% V <sub>DD</sub> ~ 10% V <sub>DD</sub>	5 ns max.	5 ns max.	6 ns max.	7 ns max.
Output Voltage	V <sub>OH</sub> V <sub>OL</sub>	90% V <sub>DD</sub> min. 10% V <sub>DD</sub> max.			
Output Load HCMOS		15pF max.			
Start Time		10 ms max.			
Stand-by Function		Yes			
Pin 1, Tri-State Function		pin 1 = H or open ... Output active at pin 3 pin 1 = L ... high impedance at pin 3			
Aging first year	at +25°C ±3°C	±2 ppm / year max.			

**OPTIONS:** 0,01 uF bypass capacitor should be placed between V<sub>DD</sub> (pin 4) and GND (pin 2) to minimize power supply line noise.  
\* Include: 25°C tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration.



Terminal	Connection
#1	Tri-State
#2	GND
#3	Output
#4	V <sub>DD</sub>

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All specifications subject to change without notice.