

PRODUKT-INFO

SCO-22 SMD OSCILLATOR SERIES

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. 3.3V, 2.8V, 1.8V and 1.5V option.

APPLICATION

Portable PC, telecommunication devices and equipment.



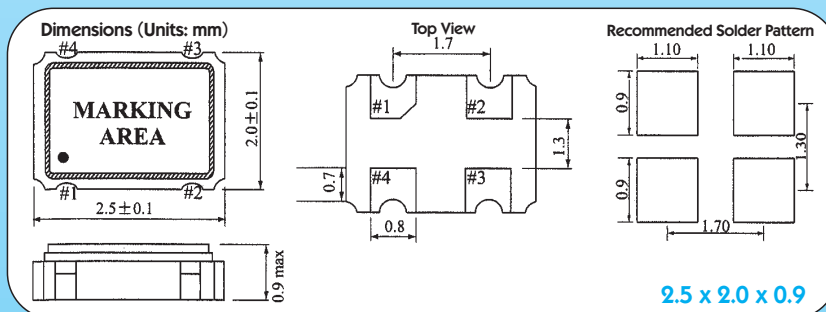
Actual Size



ELECTRICAL SPECIFICATIONS					
Model	Condition	SCO-22 (3.3 V)	SCO-22 (2.8 V)	SCO-22 (1.8 V)	SCO-22 (1.5 V)
Frequency Range	All Conditions*	1.0 MHz ~ 54.0 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		3.3V±10%	2.8V±10%	1.8V±10%	1.5V±10%
Supply Current	1.0 MHz ~ 9.999 MHz	8 mA max.	7 mA max.	6 mA max.	5 mA max.
	10.0 MHz ~ 34.999 MHz	10 mA max.	8 mA max.	7 mA max.	6 mA max.
	35.0 MHz ~ 49.999 MHz	25 mA max.	20 mA max.	15 mA max.	15 mA max.
	50.0 MHz ~ 54.0 MHz	35 mA max.	30 mA max.	25 mA max.	25 mA max.
Output Symmetry	at 1/2 V _{DD}	40% ~ 60%, 45% ~ 55% option			
Rise Time	10% V _{DD} ~ 90% V _{DD}	5 ns max.	6 ns max.	7 ns max.	7 ns max.
Fall Time	90% V _{DD} ~ 10% V _{DD}	5 ns max.	6 ns max.	7 ns max.	7 ns max.
Output Voltage	V _{OH} V _{OL}	90% V _{DD} min. 10% V _{DD} 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	±5 ppm / year max.			

■ **OPTIONS:** 0,01 uF bypass capacitor should be placed between V_{DD} (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 _{DD}

*Crystals...
and more*

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All specifications subject to change without notice.