

# PRODUKT-INFO

## SCO-75P • SCO-53P • SCO-32P • SCO-22P PROGRAMMABLE SMD OSCILLATORS

### FEATURES

1. Miniature package.
2. Output enable (OE) or standby (ST).
3. 3.3V, 2.5V and 1.8V option.
4. Short mass production lead time by PLL technology.

ELECTRICAL SPECIFICATIONS				
Model	Condition	SCO-75P SCO-53P SCO-32P SCO-22P (3.3 V)	SCO-75P SCO-53P SCO-32P SCO-22P (2.5 V)	SCO-75P SCO-53P SCO-32P SCO-22P (1.8 V)
Frequency Range		1.0~200.0 MHz	1.0~166.0 MHz	1.0~133.0 MHz
Frequency Stability	All Conditions*	±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%	2.5V±10%	1.8V±10%
Supply Current		30 mA max.	25 mA max.	20 mA max.
Output Disable Current	OE=GND	8 mA max.		
Standby Current	ST=GND	10 µA 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>	8 ns max.		
Fall Time	90% V <sub>DD</sub> ~ 10% V <sub>DD</sub>	8 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.		
Peak to Peak Jitter	10,000 sample measured	70 ps typical		
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.		



Actual Size



SCO-75P



SCO-53P

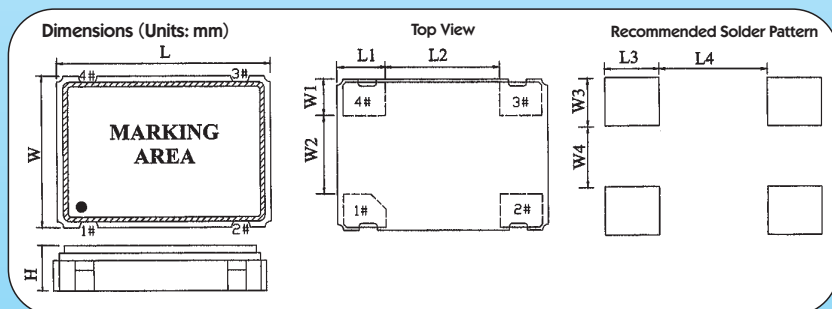


SCO-32P



SCO-22P

■ **OPTIONS:** 0,01 µF 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>

Model	DIMENSIONS										
	L	W	H max.	L1	L2	L3	L4	Pin W1	W2	W3	W4
SCO-75P	7.0	5.0	1.5	0.6	3.8	1.8	3.6	1.2	2.6	1.6	2.0
SCO-53P	5.0	3.2	1.3	1.83	1.34	1.4	1.14	1.0	1.2	1.2	1.0
SCO-32P	3.2	2.5	1.2	1.0	1.2	1.2	1.0	0.75	1.0	0.95	0.8
SCO-22P	2.5	2.0	0.9	0.8	0.9	1.0	0.7	0.7	0.6	0.9	0.4

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All specifications subject to change without notice.