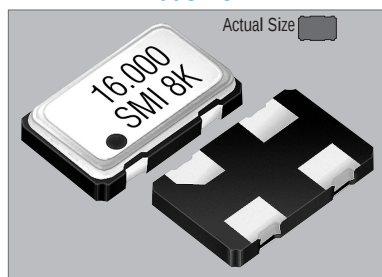
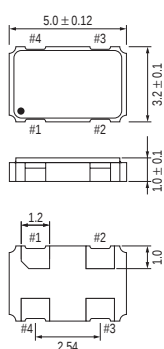


99SMO

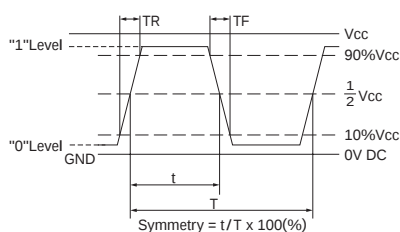


99SMO

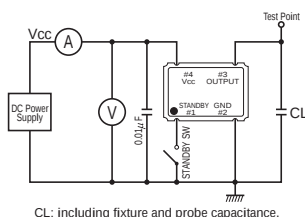


PIN	CONNECTION
1	STANDBY
2	GND
3	OUTPUT
4	Vcc

OUTPUT WAVEFORM



TEST CIRCUIT



CL: including fixture and probe capacitance.

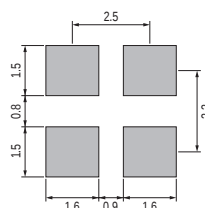
STANDARD SPECIFICATIONS

Part No.	99SMO(3V)
Frequency Range	2.500 MHz to 66.666 MHz
Frequency Stability	99SMO(3VA) ± 100 ppm 99SMO(3VB) ± 50 ppm 99SMO(3VC) ± 30 ppm over all conditions
Operating Conditions	Operating temperature: -10°C to $+70^{\circ}\text{C}$ ($\pm 100\text{ppm}$ & $\pm 50\text{ppm}$) / -10°C to $+60^{\circ}\text{C}$ ($\pm 30\text{ppm}$) Storage temperature: -55°C to $+125^{\circ}\text{C}$ Input voltage (Vcc): $+3.0\text{V DC} \pm 0.3\text{V}$
Standby control voltage	Pin#1 = Open → #3 = Output Pin#1 = $+2.1\text{V min.}$ → #3 = Output Pin#1 = $+0.9\text{V max.}$ → #3 = No oscillation
Input Current	10 mA max. (2.500 MHz to 35.000 MHz) 15 mA max. (35.000 MHz to 55.000 MHz) 20 mA max. (55.000 MHz to 66.666 MHz)
Output (-10°C to $+70^{\circ}\text{C}$)	Symmetry: 50% $\pm 10\%$ at $1/2\text{Vcc}$ level Rise and fall times: 10 ns max. "0" Level: $\text{Vcc} \times 0.1\text{V max.}$ "1" Level: $\text{Vcc} \times 0.9\text{V min.}$ Load: 15 pF max.
Standby Current	10 $\mu\text{A max.}$
Start-up	10 ms max.
Reflow Soldering Conditions	$+240^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 10 seconds $+150^{\circ}\text{C} \pm 10^{\circ}\text{C}$ for 1 to 2 minutes (preheating)

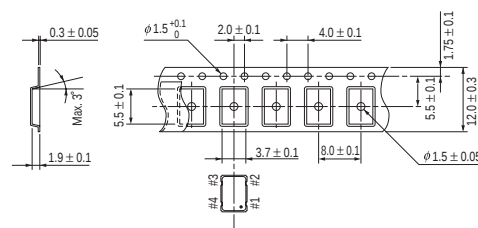
PACKAGE DATA

Item	Package	99SMO
LID		Metal
BASE		Ceramic
SEALING		Seam-weld
TERMINAL PLATING		Gold

SOLDERING PATTERN



TAPE SPECIFICATIONS



1000pcs. per reel (178mm dia.)