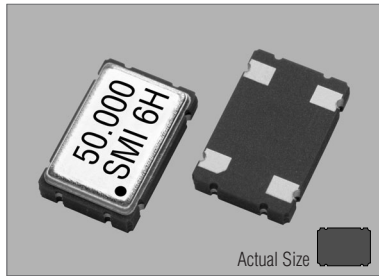
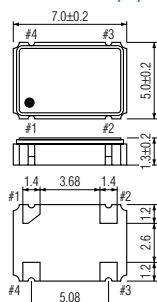


97SMO(K)



Actual Size

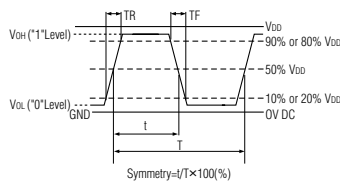
97SMO(K)



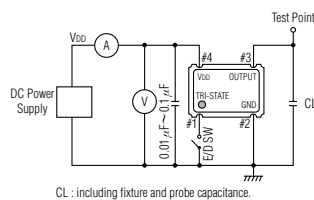
PIN	CONNECTION
1	"L" OPEN or "H"
2	GND
3	Z OUTPUT
4	V _{DD}

Z : high impedance

OUTPUT WAVEFORM

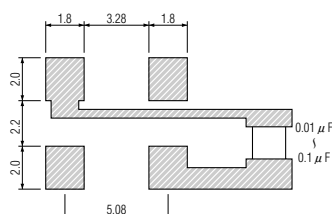


TEST CIRCUIT



CL : including fixture and probe capacitance.

SOLDERING PATTERN



STANDARD SPECIFICATIONS

Item	Specifications	
Generic part number	97SMO(K) ^{※1}	
Frequency range	1.000 MHz to 100.000 MHz	1.000 MHz to 70.000 MHz
Frequency stability (0°C to +70°C) over all conditions	97SMO(KE) : ±100 ppm 97SMO(KF) : ±50 ppm 97SMO(KG) : ±30 ppm 97SMO(KH) : ±25 ppm 97SMO(KJ) : ±20 ppm	97SMO(KX) : ±100 ppm 97SMO(KY) : ±50 ppm 97SMO(KZ) : ±30 ppm 97SMO(KZS) : ±25 ppm 97SMO(KZZ) : ±20 ppm
Operating Conditions		
Operating temperature	0°C to +70°C (standard) -40°C to +85°C (W)	
Input voltage (VDD)	+5V DC ±10%	
Tri-state control voltage (Pin#1)	VIH : +2.2VDD min. VIL : +0.8VDD max. ^{※2}	
Absolute Max. Ratings		
Supply voltage	-0.5V to +7.0V DC	
Storage temperature	-55°C to +125°C	
Input current	20 mA max. (1.0MHz to 37.0MHz) 45 mA max. (33.0MHz to 50.0MHz) 50 mA max. (50.0MHz to 70.0MHz) 70 mA max. (70.0MHz to 100.0MHz)	30 mA max. (1.0MHz to 37.0MHz) 55 mA max. (33.0MHz to 50.0MHz) 60 mA max. (50.0MHz to 70.0MHz)
Stand-by current ^{※2}	50 µA max. (Pin #1=VIL)	
Output (-40°C to +85°C)		
Symmetry	40% to 60% at 50%VDD level	
Rise and fall times	10 ns max. (10%VDD to 90%VDD level)	
"0" level	VOL : 10%VDD max.	
"1" level	VOH : 90%VDD min.	
Load	15 pF max. (CMOS)	50 pF max. (CMOS)
Enable / Disable delay time	100 ns max.	
Startup time	10 ms max.	
Aging	±5 ppm max. at +25°C ±3°C for first year	
Reflow condition	+250°C ±10°C for 10 seconds +170°C ±10°C for 1 to 2 minutes (preheating)	

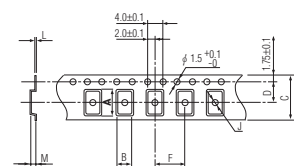
(※1) Final exact part number to be determined with frequency, frequency stability and operating temperature.
e.g. 97SMO(KY)W 50.000 MHz.

(※2) Internal crystal oscillation to be halted (Pin#1 = VIL).

PACKAGE DATA

Item	Package	97SMO(K)
Lid		Metal
Base		Ceramic
Sealing		Seam
Terminal		Tungsten (metalized)
Terminal plating		Gold / Nickel (surface) / (under)
RoHS		Compliant (Pb-free)

TAPE SPECIFICATIONS



A	B	C	D	F	J	L	M	Reel Dia.	Qty/Reel
7.65	5.75	16.0	7.5	8.0	2.0	0.3	2.2	178	1000pcs