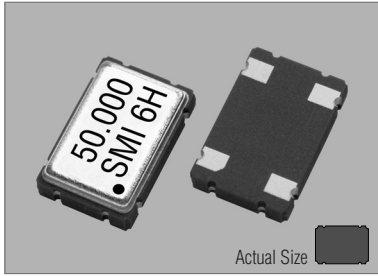
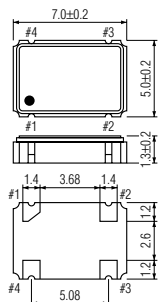


97SMO(K)



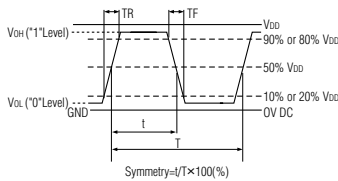
97SMO(K)



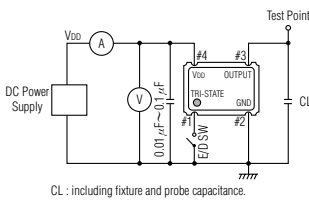
PIN	CONNECTION
1	"L" OPEN or "H"
2	GND
3	Z OUTPUT
4	V _{DD}

Z : high impedance

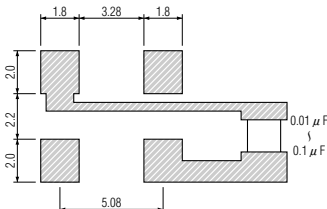
OUTPUT WAVEFORM



TEST CIRCUIT



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): V _{IH} : +2.2V _{DD} min. V _{IL} : +0.8V _{DD} 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=V _{IL})	
Output (-40°C to +85°C)	Symmetry: 40% to 60% at 50%V _{DD} level Rise and fall times: 10 ns max. (10%V _{DD} to 90%V _{DD} level) "0" level: V _{OL} : 10%V _{DD} max. "1" level: V _{OH} : 90%V _{DD} 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)	

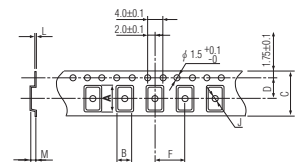
(※1) Final exact part number to be determined with frequency, frequency stability and operating temperature.
e.g. 97SMO(KY)W 50.000 MHz.

(※2) Internal crystal oscillation to be halted (Pin#1 = V_{IL}).

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