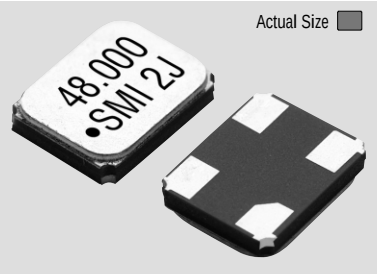
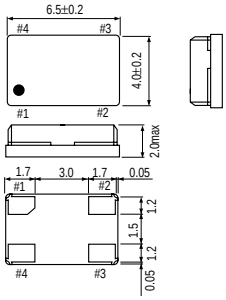
32SMO (+2.5V,+3.0V or +3.3V FIXED MODELS) STANDARD SMD CLOCK OSCILLATORS

32SMO



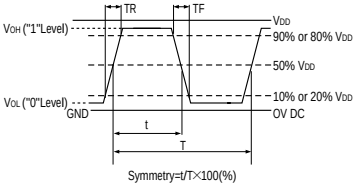
32SMO



PIN	CONNECTION	
1	"L"	OPEN or "H"
2	GND	
3	Z	OUTPUT
4	VDD	

Z: high impedance

OUTPUT WAVEFORM



Symmetry=t/T×100(%)

STANDARD SPECIFICATIONS

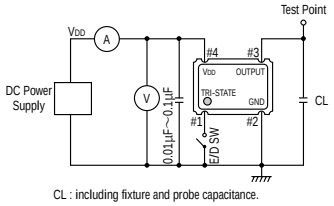
Item	Specifications
Generic part number	32SMO
Frequency range	1.000 MHz to 100.000 MHz
Frequency stability (−10℃ to +70℃) over all conditions	32SMO(A) ..... ±100 ppm 32SMO(B) ..... ±50 ppm 32SMO(C) ..... ±30 ppm
Operating Conditions	
Operating temperature	−10℃ to +70℃ (standard) −40℃ to +85℃ (W)
Input voltage (VDD)	+2.5V DC ±0.2V,+3.0V DC ±0.3V or +3.3V DC ±0.3V
Stand-by control voltage (Pin#1)	VIH : +2.2VDD min. VIL : +0.8VDD max.※
Absolute Max. Rating	
Supply voltage	−0.5V to +7.0V
Storage temperature	−50℃ to +125℃
Input current	10 mA max. (Pin #1= Open or VIH)
Stand-by current ※	50 μA max.(Pin #1=VIL)
Output (−10℃ to +70℃)	
Symmetry	40% to 60% at 50%VDD level
Rise and fall times	5 ns max. (10%VDD to 90%VDD level)
"0" level	VOL : 10%VDD max.
"1" level	VOH : 90%VDD min.
Load	15pF max. (CMOS)
Disable delay time	150 ns max.
Enable delay time	10 ms max.
Startup time	10 ms max.
Aging	±5 ppm max.at +25℃ ±3℃ for first year
Jitter	5pS max. ..... Deterministic jitter 7pS max. ..... Random jitter 7pS max. ..... Norm 1-sigma 40pS max. ..... Peak to peak
Reflow soldering condition	+240℃±5℃ for 10 seconds +150℃±10℃ for 1 to 2 minutes (preheating)

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

PACKAGE DATA

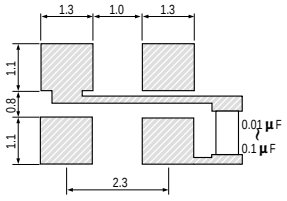
Item \ Package	32SMO
Lid	Metal
Base	Ceramic
Sealing	Seam/EB
Terminal plating	Gold

TEST CIRCUIT

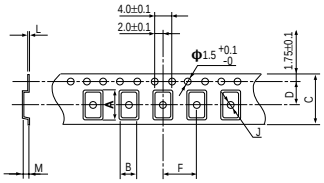


CL : including fixture and probe capacitance.

SOLDERING PATTERN



TAPE SPECIFICATIONS



A	B	C	D	F	J	L	M	Reel Dia.	Qty/Reel
3.5	2.8	8.0	3.5	4.0	1.0	0.3	1.4	178	1000pcs