■ This parts does not contain any hazardous substances as specified in the RoHS
(The restriction of the use of certain hazardous substances)

■ P/N : SCO-323350ADSR-33.333M

■ Requirements

	Items	Specifications
1	Nominal Frequency	33.333000 MHz
2	Model Name	SCO-32
3	Dimension	See drawing
4	Operating Temperature range	-40~85℃
5	Storage temperature range	-55~125℃
6	Frequency Tolerance / Stability (in operating temperature range)	± 50 ppm max.
7	Supply voltage(V_{DD})	1.8~3.3 VDC±5%.
8	Input Current(consumption current)	25 mA max.
9	Rising/Falling time(Tr/Tf)	2 ns max.
10	Symmetry(Output duty cycle)	45:55 %
11	Aging in a year	± 3 ppm / year
12	Enable/Disable function on pin 1	available
13	Output Loads (CMOS)	CL=15pF
14	Marking	33.333 S YWW ●

■ Application Note

Please do not connect inductor or bead between power supply and VDD(#4 pad).
It can make output oscillation unstable.
Please connect bypass capacitor 0.1㎌ or 0.01㎌ between VDD(#4 pad)
and circuit ground.
Please connect #1 pad to Vcc(#4 pad), if Enable/Disable function of #1 isn't used.

■ Storage condition of SMD products in the room temperature

Temperature : 25±3℃, Humidity: 35±10%(RH)

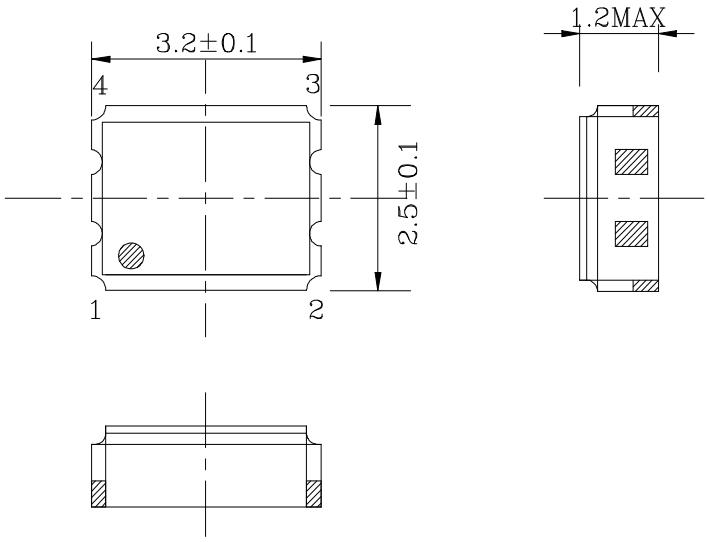
■ Storage period

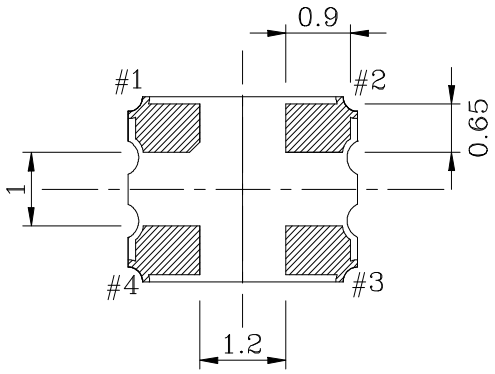
It is recommended that Storage period of SMD products for Bulk and T & R
be within 6 months and 12 months, respectively.

■ Electrostatic Discharge (ESD) Precaution

SMD Oscillators are ESD-sensitive devices. The work surface where devices are placed for handling, processing, testing, etc., must, be made of static-dissipative material and be grounded to ESD ground.

■Dimension (Unit : mm)





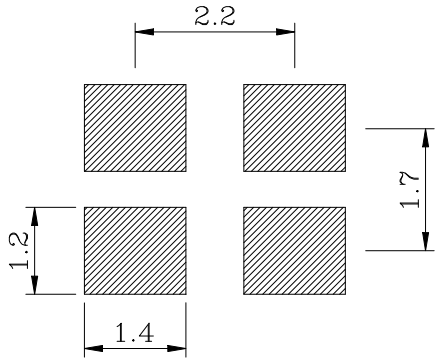
CONNECTION

1 : N.C or EN/DIS(Tri-State)
2 : GND
3 : OUTPUT
4 : Vcc

◆ E/D Function	
Condition on Pin 1	Output
≥ 0.7Vcc	Enable
≤ 0.3Vcc	Disable
N.C	Enable

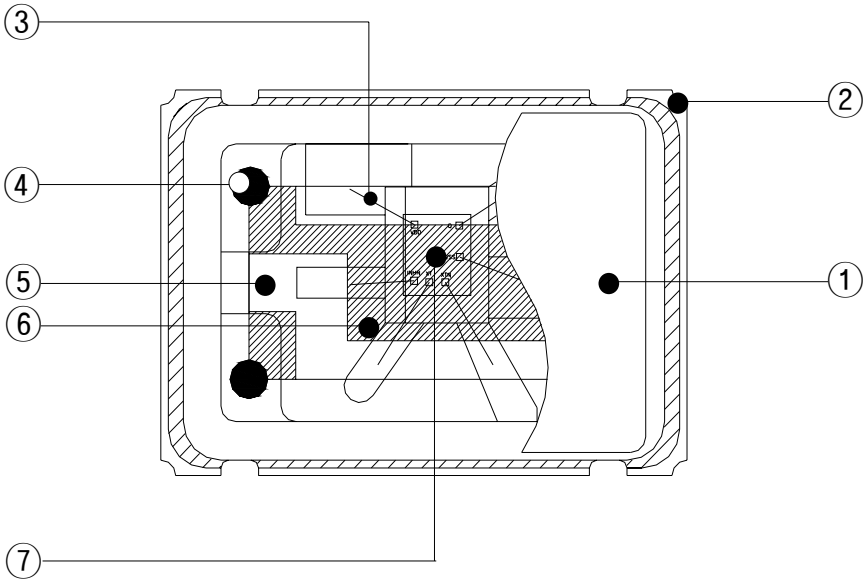
Note)
Please connect #1 pad to Vcc(#4 pad), if don't use Enable/Disable function of #1.

■Recommended Soldering Pattern (Unit : mm)



Note)
Please connect bypass capacitor 0.1㎌ or 0.01㎌ between Vcc(#4 pad) and circuit ground.

■Structure illustration



■Component

	Component	Materials and Finish
①	Lid	Kovar
②	Package	Al_2O_3
③	Gold Wire	Au
④	Epoxy	Silicon
⑤	Synthetic Quartz	SiO_2
⑥	Electrode	Ag
⑦	IC	Silicon