



SMD2520 Quartz Crystal Units



■ FEATURES:

- Very Compact and thin(2.5×2.0mm typ.)
- Frequency range of 12MHz to 54MHz with FUND
- Mobilephone and bluetooth application
- Excellent heat resistance and shock resistance

■ SPECIFICATION:

Type	SMD2520
Frequency Range(F0)	12.00 to 54.00MHz
Vibration Mode	AT cut,Fundamental
Equivalent Series Resistance(Rs)	See Table NO. 1
Frequency Tolerance@ 25±3 °C(ΔF/F0)	±10 ~±50 PPM
Frequency Stability@T ^{OPR} (TC)	See Table NO. 2
Shunt Capacitance(C0)	3.0PF Max
Load Capacitance(CL)	8.0~16.0PF or series
Insulation Resistance(IR)	> 500MΩ at DC 100V±15V
Drive Level(DL)	50.0~100.0μW
Aging(Fa)	±2~±5PPM/Year

● Table NO.1: Equivalent Series Resistance(ESR) and Vibration Mode:

Frequency Range(MHz)	Vibration Mode	ESR(Ω)	Frequency Range(MHz)	Vibration Mode	ESR(Ω)
12.00 to 15.99	AT Fundamental	120	20.00 to 29.99	AT Fundamental	80
16.00 to 19.99	AT Fundamental	100	30.00 to 54.00	AT Fundamental	50

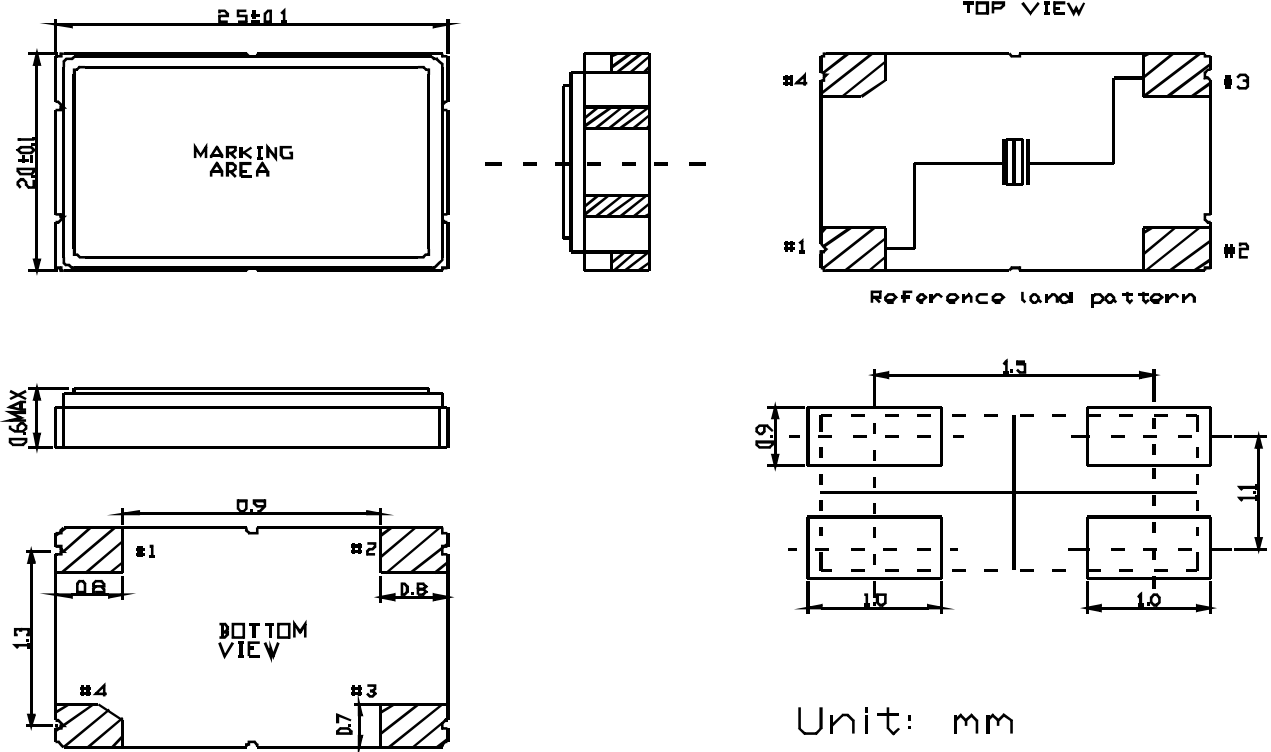
● Table NO.2: Frequency Stability Over Operating Temperature Range:

Operating Temperature Range(T ^{OPR})	Frequency Stability						
	±25 PPM	±5PPM	±10PPM	±15PPM	±20PPM	±30 PPM	±50PPM
0 to +50 °C		★	★	★	★	★	★
-10 to +60 °C		★	★	★	★	★	★
-20 to +70 °C			★	★	★	★	★
-30 to +85 °C					★	★	★
-40 to +90 °C						★	★





■ DIMENSIONS:



■ TAPING AND REEL:

