



- SMD X-TAL 3.2x2.5mm
 - Miniature and lightweight SMD crystal resonator
 - High precision and high reliability
 - Nominal frequency range : 12 MHz to 54MHz
 - Mode : Fundamental
- Applications : Mobile phone, Bluetooth, W-LAN, ISM band radio, Clock for MPU

Standard Specification



Frequency Range	12.000MHZ to 48.000MHZ
Overtone	Fundamental
Motional Resistance (ESR)	As per below table
Load Capactance (CL)	Standard (18pF),User Spec
Level of Drive (DL)	10μW(STD), 100μW max
Frequency Tolerance (25°C)	30ppm max, User Spec
Temperature Stability	50ppm max, User Spec
Operating Temperature Range	-10°C to +65°C, User Spec
Storage Temperature Range	-40°C to +85°C
Aging	± 3ppm / year max

Motional resistance (ESR)

Frequency (MHZ)	12.000 ≤ f < 15.999	16.000 ≤ f < 19.999	20.000 ≤ f < 29.999	30.000 ≤ f < 39.999	40.000 ≤ f < 48.999
CI (Ω)	120	70	50	40	35
Overtone	Fundamental				

Dimensions (mm)

