



- SMD X-TAL 5.0×3.2mm (2PAD)
 - Miniature and lightweight SMD crystal resonator
 - Excellent heat resistance, high precision, and high reliability.
 - Nominal frequency range : 8MHz to 54MHz
 - Mode : Fundamental
- Applications : PDA, car navigation systems, digital AV equipment

Standard Specification

Frequency Range	8.000MHZ to 54.000MHZ
Overtone	Fundamental
Motional Resistance (ESR)	As per below table
Load Capacitance (CL)	Standard (9pF, 12pF, 16pF), 9pF ≤ User Spec
Level of Drive (DL)	10μW(STD), 500μW max
Frequency Tolerance (25°C)	30ppm max, User Spec
Temperature Stability	50ppm max, User Spec
Operating Temperature Range	-40°C to +85°C, User Spec
Storage Temperature Range	-40°C to +85°C
Aging	± 3ppm / year max

Motional resistance (ESR)

Frequency (MHZ)	$8.000 \leq f < 11.999$	$12.000 \leq f < 17.000$	$17.001 \leq f < 32.000$	$32.001 \leq f < 54.000$
CI (Ω)	80	60	50	40
Overtone	Fundamental			

Dimensions (mm)

