SMALL SMD HIGH - FREQUENCY CRYSTAL UNIT

MA-306

- High-density mounting-type SMD.
- Excellent reliability and environment capability.
- Capable of covering a wide frequency range. (from 17.734 MHz to 41 MHz)
- 2.54mm thickness is equal to SMD-type IC.



■ Specifications (characteristics)

Item		Symbol	Specifications	Remarks
Nominal frequency		f	17.734 MHz to 41.000 MHz	Fundamental mode
Temperature range	Storage temperature	Тѕтс	-55°C to +100°C	Stored as bare product after unpacking
	Operating temperature	Topr	-20°C to +70°C	
Drive level	Maximum drive level	GL	2mW max.	Only crystal oscillation is guaranteed
	Recommended drive level	DL	10μW to 100μW	
Soldering condition		Tsol	Twice at under 260°C within 10 sec. or under 230°C within 3 min.	
Frequency tolerance (standard)		Δf/f	±50ppm	Ta=25°C±3°C
Frequency temperature characteristics (standard)			±30ppm	-20°C to +70°C
Load capacitance		CL	10pF to ∞	Please specify
Series resistance		R ₁	60 Ω max.	-20°C to +70°C, DL=100μW
Shunt capacitance		Со	5pF max.	
Insulation resistance		IR	500 M Ω min.	
Aging		fa	±5ppm/Y max.	Ta=25°C±3°C, first year
Shock resistance		S.R.	±10ppm max.	Three drops on a hard board from 75 cm or excitation test with 3000G x 0.3ms x 1/2 sine wave x 3 directions

There are some cases that a parts of the cylindrical capsule of quartz unit expose on the surface of the molding material.

