SMD HIGH-FREQUENCY CRYSTAL UNIT

IA-406

- High-density mounting-type SMD.
- Excellent heat-resistance and environment capability.
- Cover a wide frequency range, from 4 MHz to 64 MHz.



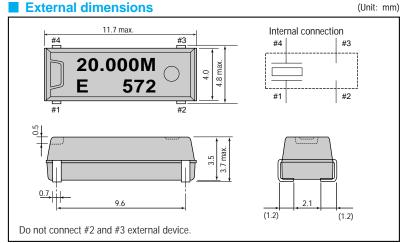
■ Specifications (characteristics)

Item		Symbol	Specifications	Remarks			
Nominal frequency		f	4.000 MHz to 30.000 MHz *1	Fundamental mode			
		ļ	26.000 MHz to 64.000 MHz	3rd overtone mode			
Temperature	Storage temperature	Тѕтс	-55°C to +125°C	Stored as bare product after unpacking			
range	Operating temperature	Topr	-20°C to +70°C				
Drive level	Maximum drive level	GL	2mW	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)		$\Delta f/f$	±50ppm	Ta=25°C±3°C			
Frequency temperature characteristics (standard)			Under 5.5 MHz: ±50ppm	-20°C to +70°C			
			Over 5.5 MHz: ±30ppm	-20 6 10 +70 6			
Load capacitance		CL -	Fundamental: 10pF to ∞	Please specify			
			Over tone: 5pF to ∞	ricase specify			
Series resistance		R ₁	As per table below	-20°C to +70°C, DL=100μW			
Shunt capacitance		Co	5pF max.				
Insulation resistance		IR	500 M Ω min.				
Aging		fa	±5ppm/year	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			

8.0 MHz < f < 8.2 MHz: Unavailable.
For frequencies below 5.5 MHz, see "Available frequencies form 4.0 MHz to less than 5.5 MHz" on page 20.
26.000 MHz to 30.000 MHz: If not specified, 3rd overtone will be delivered.
There are some cases that a parts of the cylindrical capsule of quartz unit expose on the surface of the molding material.

Frequency (MHz)	4.0 ≤ f < 5.5	5.5 ≤ f < 6.0	6.0 ≤ f < 10.0	10.0 ≤ f < 12.0	12.0 ≤ f < 16.0	16.0 ≤ f < 30.0	$26.0 \le f \le 36.0$	36.0 < f ≤ 64.0
Series resonance resistance (Ω)	150 Ω max.	100 Ω max.	80 Ω max.	60 Ω max.	50 Ω max.	40 Ω max.	100 Ω max.	80 Ω max.
Mode	de Fundamental mode						3rd overtone mode	

External dimensions



Recommended soldering pattern (Unit: mm) 7.8 1.9