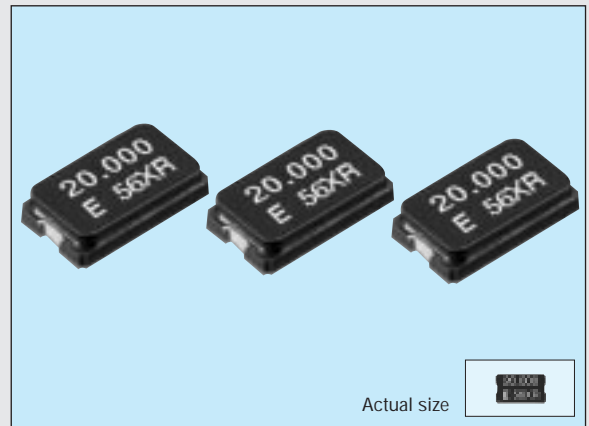


THIN SMD HIGH-FREQUENCY CRYSTAL UNIT

FA-365

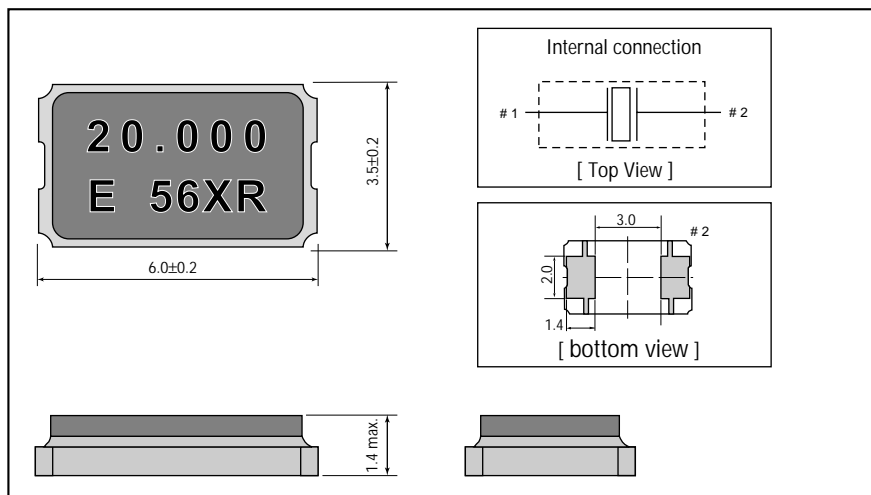
- High-density mounting-type SMD.
- Excellent reliability and environment capability.
- Capable of covering a wide frequency range. (from 14 MHz to 41 MHz)
- 1.4mm thickness is equal to SMD-type IC.



Specifications (characteristics)

Item	Symbol	Specifications	Remarks	
Nominal frequency range	f	14.000 MHz to 41.000 MHz	Fundamental mode	
Temperature range	Storage temperature	T _{STG}	-55°C to +125°C	Stored as bare product after unpacking
	Operating temperature	T _{OPR}	-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	T _{SOL}	Twice at under 260°C within 10 sec. or under 230°C within 3 min.		
Frequency tolerance (standard)	Δf/f	±50ppm, ±100ppm	T _a =25°C±3°C	
Frequency temperature characteristics (standard)		±30ppm	-20°C to +70°C	
Load capacitance	C _L	10pF to ∞	Please specify	
Series resistance	R _i	50 Ω max.	-20°C to +70°C, DL=100μw	
Shunt capacitance	C ₀	5.0pF max.		
Insulation resistance	IR	500 MΩ min.		
Aging	f _a	±5ppm/year max.	T _a =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	

External dimensions



(Unit: mm) Recommended soldering pattern (Unit: mm)

