

AT-CUT CRYSTAL UNIT (SMD · Ceramic Package)

RoHS Compliant Standard

CS20

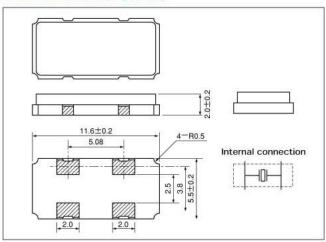
2000pcs/reel



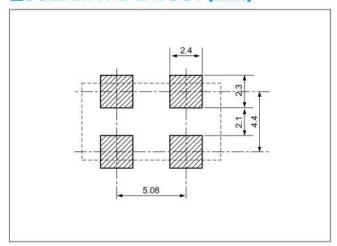
FEATURES

- Reliable ceramic package and excellent environmental characteristics.
- Ava able for wide range of frequency.
- communication devices, AV devices, automotive devices and measuring instruments.

■DIMENSION [mm]



SOLDER PAD LAYOUT [mm]



STANDARD SPECIFICATIONS

ltem Model		CS20	Conditions	
Nominal Frequency	fo	3.5MHz~30.0MHz (Fundamental)	Need to contact us for the available frequency	
Frequency Tolerance	△f/fo	±30ppm	at 25°C	
Frequency Tolerance over Operating Temperature Range	△f/fo	±50ppm	-10°C∼+60°C	
Operating Temperature Range	TOPR	-40°C∼+85°C		
Storage Temperature Range	TSTR	-55°C∼+125°C		
Motional (series) resistance	Rı	Refer to the following table	at 25°C	
Load capacitance	CL	18.0pF	Need to specify your requirement	
Shunt capacitance	C ₀	7.0pF Max.		
Level of drive	DL	100 μW.		
Insulation Resistance	la la	500M Ω Min.	DC100V±15V	
Aging (first year)	△f/fo	±5ppm Max.	25℃±3℃	

■MOTIONAL (SERIES) RESISTANCE (R₁)

Frequency Range	3.5MHz≦fo<4.0MHz	4.0MHz≦f₀<6.0MHz	6.0MHz≦f ₀ <10MHz	10MHz≦f₀<14MHz	14MHz≦fo≦30MHz
R ₁	200 Ω Max.	150 Ω Max.	100 Ω Max.	80 Ω Max.	50 Ω Max.