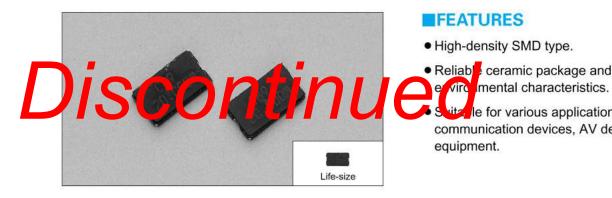


# AT-CUT CRYSTAL UNIT (SMD · Ceramic Package)

**RoHS Compliant Standard** 

**CS10** 

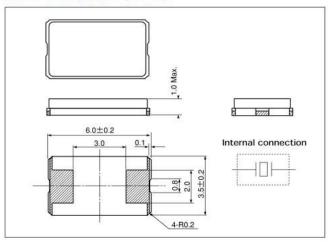
2000pcs/reel



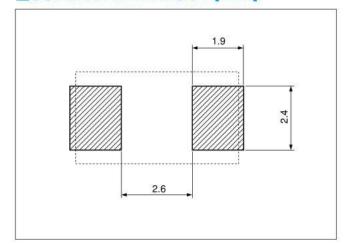
#### **FEATURES**

- High-density SMD type.
- Reliab ceramic package and excellent
- le for various applications such as communication devices, AV devices and other equipment.

## DIMENSION [mm]



### SOLDER PAD LAYOUT [mm]



#### STANDARD SPECIFICATIONS

Item	Model	CS10	Conditions
Nominal Frequency	fo	12.0MHz~50.0MHz (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℃~+125℃	
Motional (series) resistance	R <sub>1</sub>	Refer to the following table	at 25°C
Load capacitance	CL	18.0pF	Need to specify your requirement
Shunt capacitance	Co	7.0pF Max.	
Level of drive	DL	50 μW	
Insulation Resistance	IR	500M Ω Min.	DC100V±15V
Aging (first year)	△f/fo	±5ppm Max.	25℃±3℃

# ■MOTIONAL (SERIES) RESISTANCE (R₁)

Frequency Range	12.0MHz≦f0<14.0MHz	14.0MHz≦f0≦50.0MHz
R <sub>1</sub>	70 Ω Max.	50 Ω Max.