

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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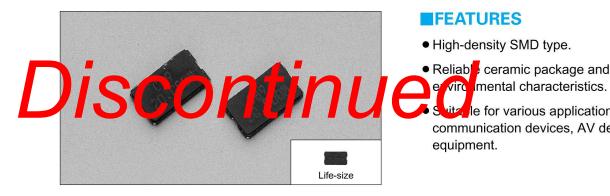


## AT-CUT CRYSTAL UNIT (SMD · Ceramic Package)

**RoHS Compliant Standard** 

**CS10** 

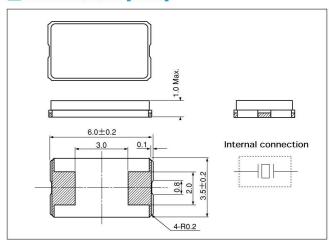
2000pcs/reel



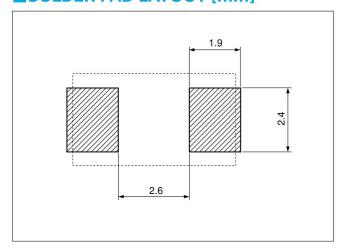
#### **FEATURES**

- 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]



#### **ISTANDARD 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°C∼+125°C	
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.