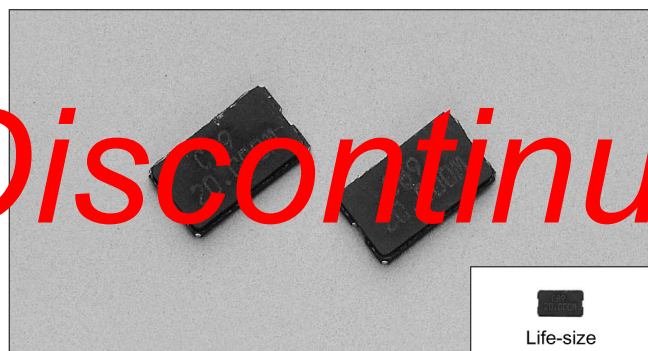


AT-CUT CRYSTAL UNIT (SMD • Ceramic Package)

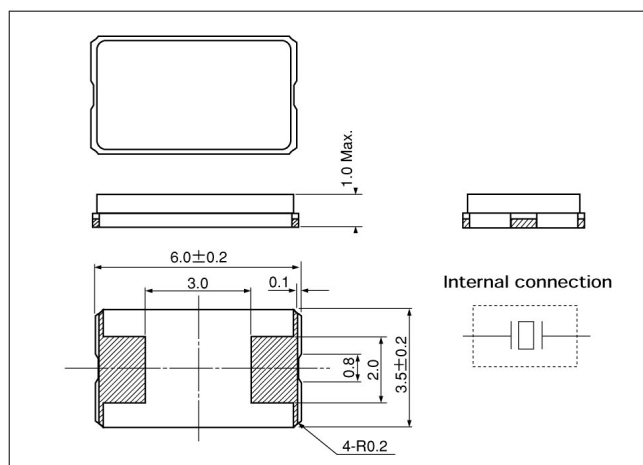
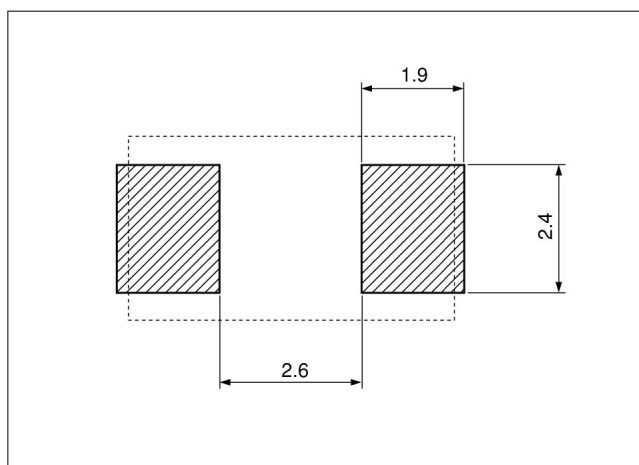
RoHS Compliant Standard

CS10

2000pcs/reel

**FEATURES**

- High-density SMD type.
- Reliable ceramic package and excellent environmental characteristics.
- Suitable 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	f_0	12.0MHz~50.0MHz (Fundamental)	Need to contact us for the available frequency
Frequency Tolerance	$\Delta f/f_0$	$\pm 30\text{ppm}$	at 25°C
Frequency Tolerance over Operating Temperature Range	$\Delta f/f_0$	$\pm 50\text{ppm}$	-10°C~+60°C
Operating Temperature Range	T_{OPR}	-40°C~+85°C	
Storage Temperature Range	T_{STR}	-55°C~+125°C	
Motional (series) resistance	R_1	Refer to the following table	at 25°C
Load capacitance	C_L	18.0pF	Need to specify your requirement
Shunt capacitance	C_0	7.0pF Max.	
Level of drive	D_L	50 μW	
Insulation Resistance	I_R	500M Ω Min.	DC100V $\pm$ 15V
Aging (first year)	$\Delta f/f_0$	$\pm 5\text{ppm Max.}$	25°C $\pm$ 3°C

MOTIONAL (SERIES) RESISTANCE (R_1)

Frequency Range	$12.0\text{MHz} \leq f_0 < 14.0\text{MHz}$	$14.0\text{MHz} \leq f_0 \leq 50.0\text{MHz}$
R_1	70 Ω Max.	50 Ω Max.

Mouser Electronics

Authorized Distributor

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Citizen:

[CS10-24.000MABL-UT](#) [CS10-12.000MABE-UT](#) [CS10-25.000MBMI-UT](#) [CS10-13.000MAAQ-UT](#) [CS10-49.152MAAI-UB](#) [CS10-12.000MABL-UT](#) [CS10-14.31818MABJ-UT](#) [CS10-33.000MABJ-UT](#) [CS10-13.50MABL-UT](#) [CS10-24.576MABJ-UT](#) [CS10-13.000MABJ-UT](#) [CS10-49.152MABJ-UB](#) [CS10-15.000MAB-UT](#) [CS10-16.9344MAAC-UT](#) [CS10-29.4912MABJTR](#) [CS10-18.432MABJ-UT](#) [CS10-15.360MABJ-UT](#) [CS10-35.328MABJTR](#) [CS10-20.000MABJ-UT](#) [CS10-22.1184MABJ-UT](#) [CS10-14.31818MAFE-UT](#) [CS10-12.000MBBE-UT](#) [CS10-32.768MABJ-UT](#) [CS10-16.000MABJ-UT](#) [CS10-14.7456MABJ-UT](#) [CS10-27.000MBBL-UT](#) [CS10-35.46895MAAK-UT](#) [CS10-29.4912MABJ-UT](#) [CS10-25.000MAAQ-UT](#) [CS10-12.288MABJ-UT](#) [CS10-27.000MAAE-UT](#) [CS10-30.000MABJ-UT](#) [CS10-12.000MABJ-UT](#) [CS10-35.328MABJ-UT](#) [CS10-32.000MABJTR](#) [CS10-28.63636MABJ-UT](#) [CS10-25.000MCBK-UT](#) [CS10-14.31818MAAE-UT](#) [CS10-48.000MABJ-UT](#) [CS10-16.384MABJ-UT](#) [CS10-12.500MABJ-UT](#) [CS10-30.000MABJTR](#) [CS10-32.000MABJ-UT](#) [CS10-25.000MABJ-UT](#) [CS10-29.498928MABJ-UT](#) [CS10-49.0909MABL-UT](#) [CS10-24.576MAAQ-UT](#) [CS10-33.8688MAAE-UT](#) [CS10-19.6608MABJ-UT](#) [CS10-27.000MABL-UT](#) [CS10-29.498928MABJTR](#) [CS10-32.768MABJTR](#) [CS10-27.000MABJ-UT](#) [CS10-12.000MAAE-UT](#) [CS10-19.200MABJ-UT](#) [CS10-19.200MABJTR](#) [CS10-40.000MABJ-UT](#) [CS10-18.432MAAE-UT](#) [CS10-15.000MABTR](#) [CS10-24.000MABJ-UT](#) [CS10-13.560MABJ-UT](#)