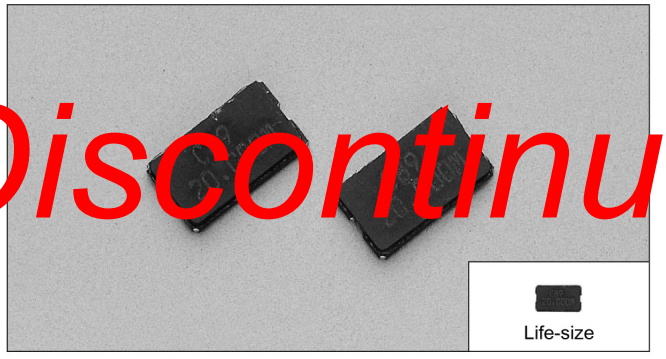
CITIZEN

AT-CUT CRYSTAL UNIT (SMD • Ceramic Package)

RoHS Compliant Standard **CS10** 2000pcs/reel

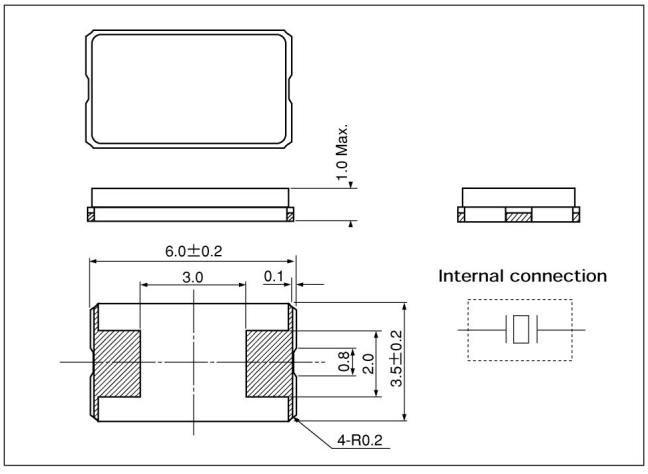
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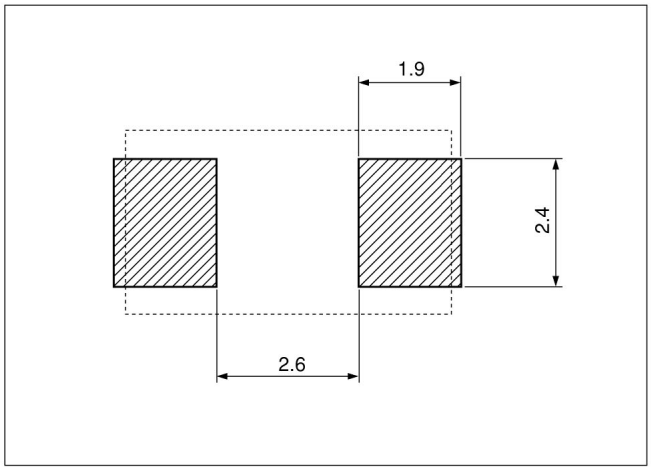
■FEATURES

- 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	$\triangle f/f_0$	±30ppm	at 25℃
Frequency Tolerance over Operating Temperature Range	$\triangle f/f_0$	±50ppm	−10℃～+60℃
Operating Temperature Range	T_{OPR}	−40℃～+85℃	
Storage Temperature Range	T_{STR}	−55℃～+125℃	
Motional (series) resistance	R_1	Refer to the following table	at 25℃
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	500MΩMin.	DC100V±15V
Aging (first year)	$\triangle f/f_0$	±5ppm Max.	25℃±3℃

■MOTIONAL (SERIES) RESISTANCE (R_1)

Frequency Range	12.0MHz≦f0＜14.0MHz	14.0MHz≦f0≦50.0MHz
R_1	70Ω Max.	50Ω Max.