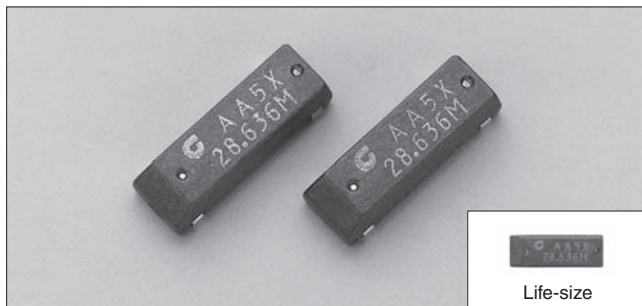


AT-CUT CRYSTAL UNIT (SMD • Plastic Package)

CM309S

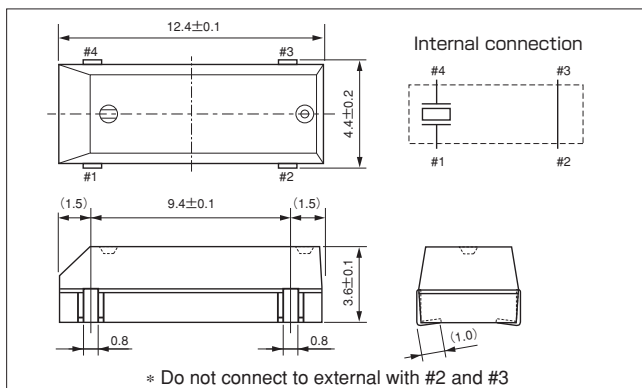
1000pcs/reel



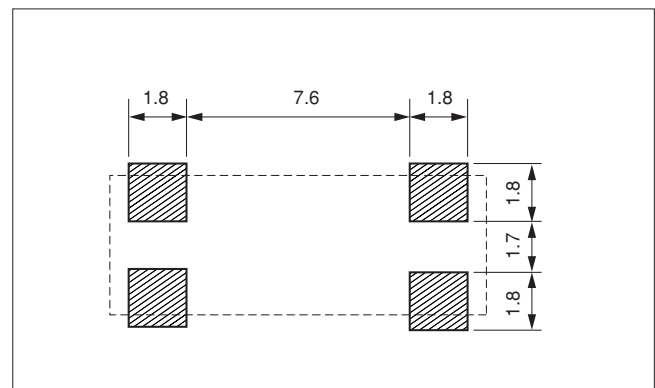
FEATURES

- Embedded with heat resistant cylinder type crystal bring highly stable characteristics.
- Automatic mounting and reflowable type.
- Suitable for various applications such as communication devices, AV devices, automotive devices and measuring instruments.

DIMENSION [mm]



SOLDER PAD LAYOUT [mm]



STANDARD SPECIFICATIONS

Item	Model	CM309S	Conditions
Nominal Frequency	f_0	3.5MHz~34.0MHz (Fundamental)	Need to contact us for the available frequency
		27.0MHz~70.0MHz (3rd Overtone)	
Frequency Tolerance	$\Delta f/f_0$	$\pm 30\text{ppm}$	at 25°C
Frequency Tolerance over Operating Temperature Range	$\Delta f/f_0$	below 6.0MHz: $\pm 50\text{ppm}$	-10°C ~ +60°C See figure 3 in P4
		above 6.0MHz: $\pm 30\text{ppm}$	
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	16.0pF, 18.0pF	Need to specify your requirement
Shunt capacitance	C_0	7.0pF Max.	
Level of drive	D_L	100 μW	
Insulation Resistance	I_R	500M Ω Min.	DC100V $\pm 15\text{V}$
Aging (first year)	$\Delta f/f_0$	$\pm 5\text{ppm}$ Max.	25°C $\pm 3^\circ\text{C}$

MOTIONAL (SERIES) RESISTANCE (R_1)

Frequency Range	3.5MHz≤f ₀ <4.0MHz	4.0MHz ≤ f ₀ < 6.0MHz	6.0MHz≤f ₀ <10MHz	10MHz≤f ₀ <27MHz	27MHz≤f ₀ <36MHz		36MHz≤f ₀ ≤70MHz
Mode	Fundamental	Fundamental	Fundamental	Fundamental	Fundamental	3rd Overtone	3rd Overtone
R ₁	200 Ω Max.	150 Ω Max.	100 Ω Max.	50 Ω Max.	50 Ω Max.	100 Ω Max.	80 Ω Max.

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