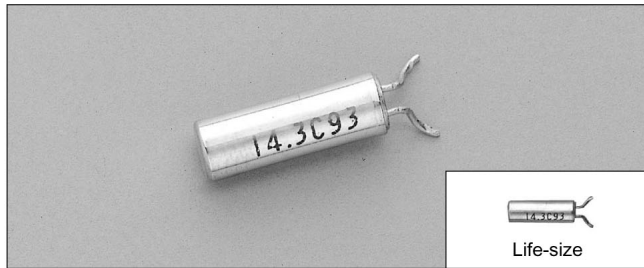
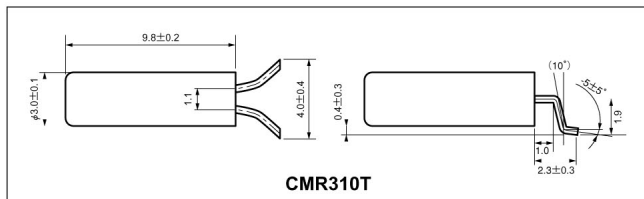
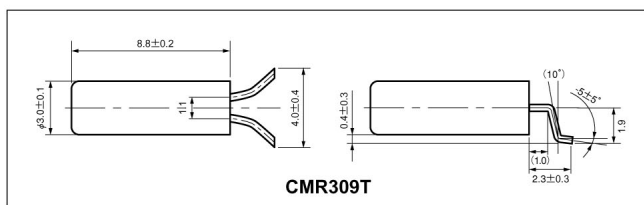
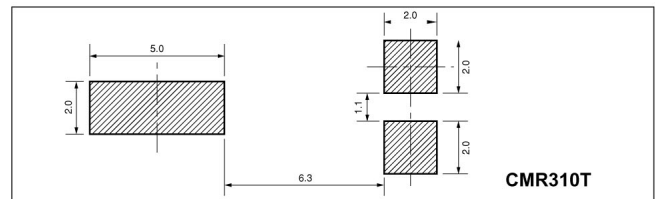
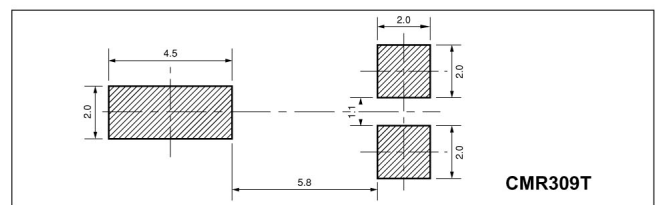


AT-CUT CRYSTAL UNITS (SMD • Cylinder Type)RoHS Compliant Optional **CMR310T • CMR309T**

1000pcs/reel

**FEATURES**

- High performance miniature crystal units with Citizen's ultra-precise processing technology.
- High-stability assured with tight vacuum sealing.
- Lead forming SMD type with embossed tape. Automatic mounting and reflowable Type.

DIMENSION [mm]**CMR310T****CMR309T****SOLDER PAD LAYOUT [mm]****CMR310T****CMR309T****STANDARD SPECIFICATIONS**

Item	Model	CMR310T	CMR309T	Conditions
Nominal Frequency	f_0	3.5MHz ~ 4.0MHz	4.001MHz ~ 30.0MHz (Fundamental) 30.001MHz ~ 70.0MHz (3rd Overtone)	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	5.0pF Max.		
Level of drive	D_L	100 μW Max.		
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	$3.5\text{MHz} \leq f_0 < 4.0\text{MHz}$	$4.0\text{MHz} \leq f_0 < 6.0\text{MHz}$	$6.0\text{MHz} \leq f_0 < 10\text{MHz}$	$10\text{MHz} \leq f_0 < 27\text{MHz}$	$27\text{MHz} \leq f_0 < 36\text{MHz}$	$36\text{MHz} \leq f_0 \leq 70\text{MHz}$
Mode	Fundamental	Fundamental	Fundamental	Fundamental	Fundamental	3rd Overtone
R_1	200 Ω Max.	150 Ω Max.	100 Ω Max.	50 Ω Max.	50 Ω Max.	80 Ω Max.

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