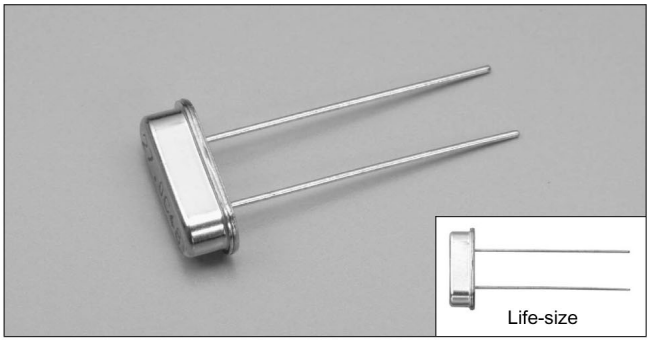
AT-CUT CRYSTAL UNIT (Metal-can Type)

RoHS Compliant Optional

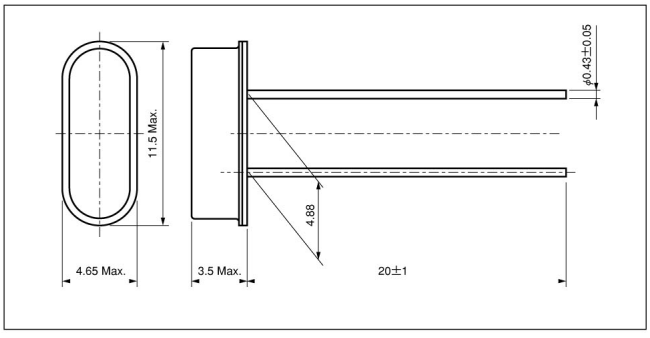
HC49US



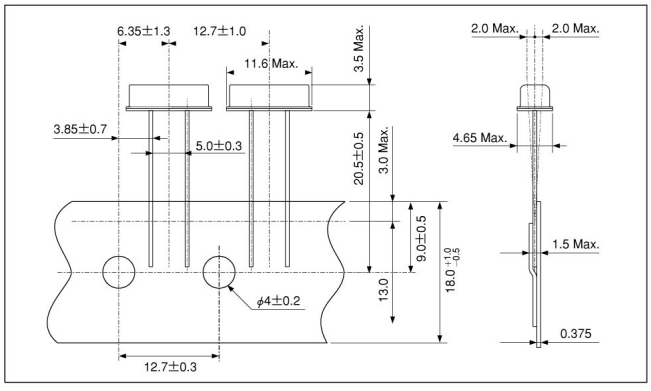
■FEATURES

- High performance miniature crystal units with Citizen's ultra-precise processing technology.
- Available in Tape and reel form.
- Suitable for various applications such as communication , AV , automotive and measurement devices.

■DIMENSION [mm]



Taping dimension : 2000pcs/Ammo pack [mm]



■STANDARD SPECIFICATIONS

Item	Model	HC49US	Conditions
Nominal Frequency	f_0	3.5MHz～30.0MHz（Fundamental）	Need to contact us for the available frequency
		30.001MHz～50.0MHz（3rd Overtone）	
Frequency Tolerance	$\triangle f/f_0$	±30ppm	at 25˚C
Frequency Tolerance over Operating Temperature Range	$\triangle f/f_0$	±50ppm	−10˚C～+60˚C
Operating Temperature Range	T_{OPR}	−20˚C～+70˚C	
Storage Temperature Range	T_{STR}	−40˚C～+85˚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	100 μW Max.	
Insulation Resistance	I_R	500MΩMin.	DC100V±15V
Aging (first year)	$\triangle f/f_0$	±5ppm Max.	25˚C±3˚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<14MHz	14MHz≦f_0<30MHz	30MHz≦f_0<36MHz	36MHz≦f_0≦50MHz
Mode	Fundamental	Fundamental	Fundamental	Fundamental	Fundamental	3rd Overtone	3rd Overtone
R_1	200Ω Max.	150Ω Max.	100Ω Max.	80Ω Max.	50Ω Max.	140Ω Max.	100Ω Max.