# **CITIZEN**

### AT-CUT CRYSTAL UNIT (Metal-can Type)

#### **RoHS** compliant

# HC-49/U-S



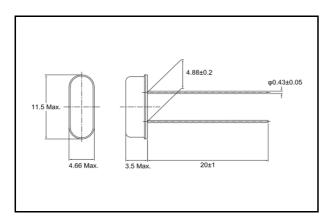
#### **■ FEATURES**

● Frequency range : 3.5 ~ 50.0MHz

External dimensions (mm)L: 11.5 x W: 4.66 x H: 3.5

ApplicationsConsumer products

### **■ DIMENSION** [mm]



#### **■ STANDARD SPECIFICATIONS**

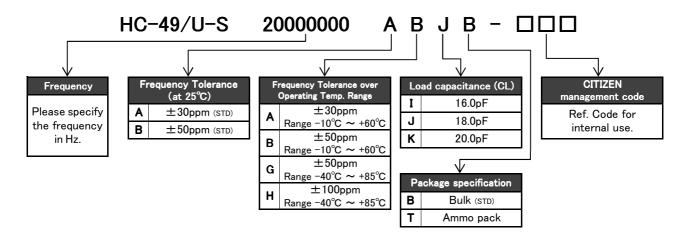
Item	Model	HC-49/U-S	Conditions		
Nominal Frequency		3.5MHz ~ 30.0MHz (Fundamental) 30.0MHz ~ 50.0MHz (3rd Overtone)	Please contact us for frequencies available		
Frequency Tolerance	∆f/fo	±30ppm	at 25 <sup>°</sup> C		
Frequency Tolerance over Operating Temperature Range	∆f/fo	below 6.0MHz:±50ppm above 6.0MHz:±30ppm	-10°C <b>~</b> +60°C		
Operating Temperature Range	Topr	−20°C <b>~</b> +70°C			
Storage Temperature Range		-40°C <b>~</b> +85°C			
Motional (series) resistance	R <sub>1</sub>	Refer to the following table	at 25°C		
Load capacitance	CL	Fundamental:10.0pF ~ ∞ 3rd Overtone:5.0pF ~ ∞	Please specify your requirement		
Shunt capacitance Co		7.0pF Max.			
Level of drive	DL	100 μ W			
Insulation Resistance	ĪR	500M Ω Min.	DC100V±15V		
Aging (first year)	∆f/fo	±5ppm Max.	25°C±3°C		

## ■ MOTIONAL (SERIES) RESISTANCE (R1)

Freq. Range (MHz)	3.5≦fo<4.0	4.0≦fo<6.0	6.0≦fo<10.0	10.0≦fo<14.0	14.0≦fo<30.0	30.0≦fo<36.0	36.0≦fo≦50.0
Mode	Fundamental	Fundamental	Fundamental	Fundamental	Fundamental	3rd Overtone	3rd Overtone
R1	200 Ω Max.	150 Ω Max.	100 Ω Max.	80 Ω Max.	50 Ω Max.	140 Ω Max.	100 Ω Max.

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#### **■ PART NUMBERING SYSTEM**



\*Please contact us for specifications available.

#### ■ Part Marking [standard]



f: The first 4 digits of Frequency including the decimal point

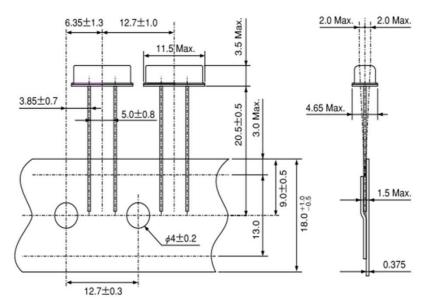
C: Manufacture's ID Code

y: The last digit of production year

m: Production month (See Table.1)

Table.1									
Month	Jan	Feb		Sep	Oct	Nov	Dec		
Code	1	2	•••	9	Χ	Υ	Z		

### ■ Taping dimension: 2,000pcs/Ammo pack [mm]



Product specifications are subject to change without notice.