

AT-CUT CRYSTAL UNIT (SMD • Metal-can Type)

RoHS compliant

HCM49

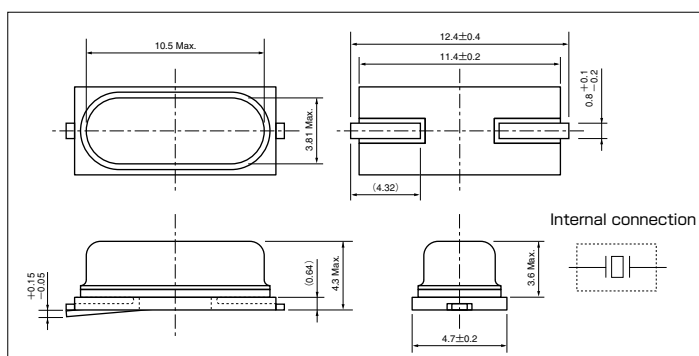
1000pcs/reel



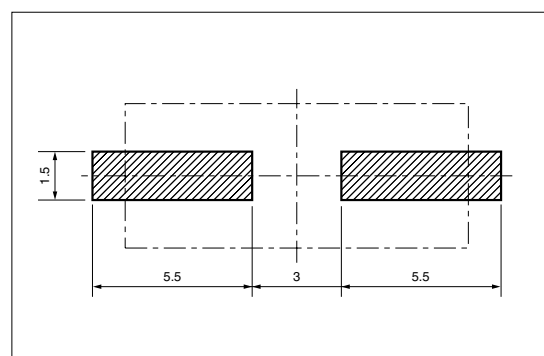
FEATURES

- Surface mount type of metal-can HC-49/U-S.
High performance with the resistance weld sealing.
- Suitable for various applications such as communication devices, AV devices and measuring instruments.

DIMENSION [mm]



SOLDER PAD LAYOUT [mm]



STANDARD SPECIFICATIONS

Item	Model	HCM49	Conditions
Nominal Frequency	f_0	3.5MHz~30.0MHz (Fundamental)	Need to contact us for the available frequency
		30.0MHz~50.0MHz (3rd Overtone)	
Frequency Tolerance	$\Delta f/f_0$	±30ppm	at 25°C
Frequency Tolerance over Operating Temperature Range	$\Delta f/f_0$	below 6.0MHz:±50ppm	-10°C~+60°C
		above 6.0MHz:±30ppm	
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	Fundamental:10.0pF~∞ 3rd Overtone:5.0pF~∞	Need to specify your requirement
Shunt capacitance	C_0	7.0pF Max.	
Level of drive	D_L	100 μW	
Insulation Resistance	I_R	500MΩ Min.	DC100V±15V
Aging (first year)	$\Delta f/f_0$	±5ppm Max.	25°C±3°C

MOTIONAL (SERIES) RESISTANCE (R_1)

Frequency Range	$3.5\text{MHz} \leq f_0 < 4.0\text{MHz}$	$4.0\text{MHz} \leq f_0 < 6.0\text{MHz}$	$6.0\text{MHz} \leq f_0 < 10\text{MHz}$	$10\text{MHz} \leq f_0 < 14\text{MHz}$	$14\text{MHz} \leq f_0 < 30\text{MHz}$	$30\text{MHz} \leq f_0 < 36\text{MHz}$	$36\text{MHz} \leq f_0 \leq 50\text{MHz}$
Mode	Fundamental	Fundamental	Fundamental	Fundamental	Fundamental	3rd Overtone	3rd Overtone
R_1	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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