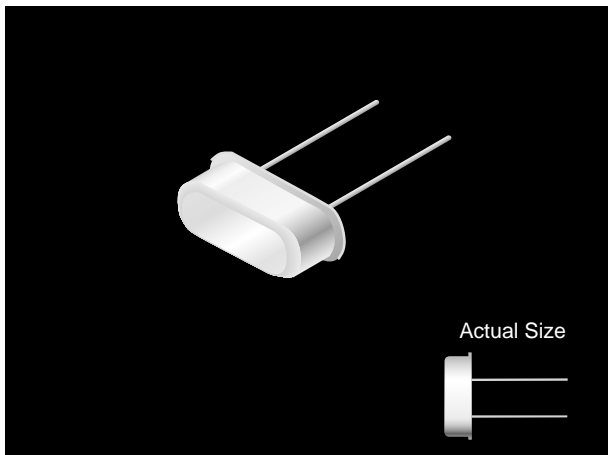


HC49US/UM RESISTANCE WELD LOW PROFILE CRYSTAL



IDA offers 2 different low profile HC-49US/UM crystals with respectively 2.5mm and 3.5mm height having industry standard HC49/U lead spacing. These are ideal for many of space-limited applications.

FEATURES

- Low Profile
- Industry Standard lead spacing
- Resistance Weld for a good aging factor
- Various options.

OPTIONS

- ◆ Extended Temp. Range.
- ◆ Mylar Spacer
- ◆ Tighter Tolerance such as $\pm 10\text{ppm}$ over -10°C to $+60^{\circ}\text{C}$

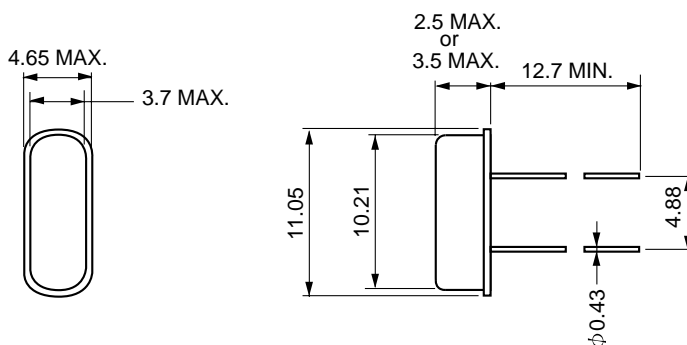
SPECIFICATIONS

Operating Temp.	0°C ~ +70°C
Storage Temp.	-30°C ~ +85°C
Aging characteristics	$\pm 5\text{ppm max. @}25^{\circ}\text{C per year}$

Parameter	Condition	MIN.	TYP.	MAX.	UNIT
Frequency Range		3.579545		70.000	MHz
Frequency Tolerance	3.5 - 41MHz, AT Fund.	-30		+30	PPM
	27 - 70MHz, AT 3 rd	-30		+30	
	30 - 50MHz, BT Fund.	-50		+50	
Frequency stability reference @25°C	3.5 - 41MHz, AT Fund.	-50		+50	PPM
	27 - 70MHz, AT 3 rd	-50		+50	
	30 - 50MHz, BT Fund.	-100		+100	
Shunt Capacitance (Co)				7.0	pF
Load Capacitance (Cl)	To be specified	10.0	18.0 standard		pF
Drive Level	3.579545 - 70.0MHz		0.1	0.5	mW

EQUIVALENT SERIES RESISTANCE

Frequency Range(MHz)	OSC. Mode	Max. ESR (Ω)	Frequency Range(MHz)	OSC. Mode	Max. ESR (Ω)
3.579 - 3.999	AT Fund	200	9.000 - 12.999	AT Fund	60
4.000 - 4.999	AT Fund	150	13.000 - 19.999	AT Fund	40
5.000 - 5.999	AT Fund	120	20.000 - 41.000	AT Fund	30
6.000 - 6.999	AT Fund	100	30.000 - 50.000	BT Fund	30
7.000 - 8.999	AT Fund	80	27.000 - 70.000	AT 3 rd O.T.	100



- ◆ HC49/US =3.5mmH max.
- ◆ HC49/UM =2.5mmH max.

Unit : mm