

Crystals for hobby modellers radio: specification

General application

Crystals for hobby modeller radio, designed for remote control models of many leading brands.

Features

Transmitters (radiotransmitters, TX), receivers for single mixing (RX), receivers for dual mixing (RX DS). AM or FM modulation.

Assembly, taping

Cases for modeller crystals (HC-50 and HC-52 series) are designed for through hole mount. Modeller crystals can be delivered with a plastic sleeve or with glued tags.



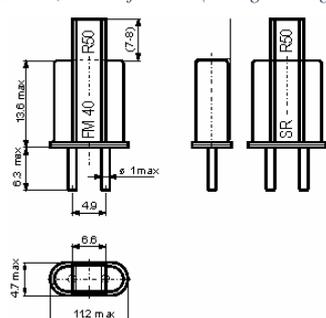
Typical specifications

Parameters	transmitters, receivers for single mixing, receivers for dual mixing
Band	27, 35, 36, 40, 41, 72, 75 MHz
Case	HC-50/U, HC-52/U
Overtone	1. or 3.
Freq. adjustment tolerance at 25°C	$\pm 7.5, \pm 10, \pm 20 \times 10^{-6}$
Frequency stability	± 8 ppm in $-10 \dots +50$ °C or $\pm 20, \pm 30$ ppm in $-20 \dots +70$ °C
Equivalent series resistance	15Ω, 20Ω, 35Ω, 40Ω (by overtone, frequency and by cases)
Load capacitance	series resonance, $C_L = 5 \dots 50$ pF
Marking	channel number on the top, frequency and channel number on the side

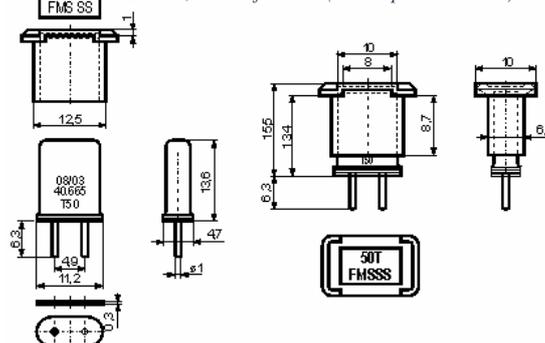
The parameters are in accordance with customer needs and the required compatibility with the model kit manufacturer. Differences from standard values and other parameters can be consulted.

Outline dimensions [mm]

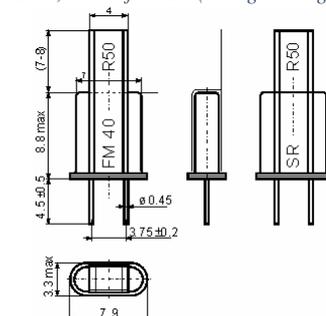
HC-50, 1.modification (with glued tags)



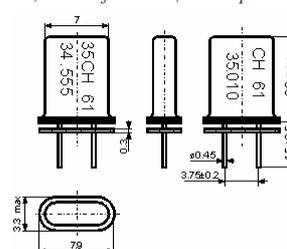
HC-50, 2.modification (with a plastic sleeve)



HC-52, 1.modification (with glued tags)



HC-52, 2.modification (with a plastic sleeve)



Crystals for hobby modeller radio: offer

Offer

We offer crystal units for model sets of many leading brands, for example:

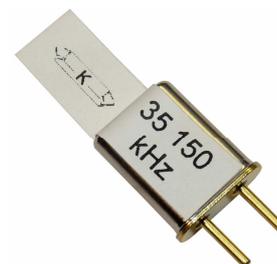
Multiplex, Graupner, Futaba, Hitec, MZK, Kopropro, Am, Acoms and more

We are able to produce any modeller crystal according to the specification and provide the customer with a sample.

Contact us with your enquiry.

Compatibility

We guarantee 100% compatibility with the aforementioned brands.



Basic overview

Band [MHz]	Channel	Type	Case	Modulation
27	1-30	TX, RX	HC-50	AM
35	61-80			
35	61-80	TX, RX	HC-50/52	FM
	182-191	TX, RX, RX DS		
	255-260 281-290			
36	601-659	TX, RX, RX DS	HC-50	FM
40	50-92	TX, RX, RX DS	HC-50	AM
40	41-59	TX, RX, RX DS	HC-50	FM
	81-92			
41	400-420	TX, RX, RX DS	HC-50	FM
72	911-960	TX, RX, RX DS	HC-52	FM
75	961-990	TX, RX	HC-52	FM

Overview of frequency bands, frequency and channels by model kit manufacturers

Transmitters

	27MHz	35MHz	36MHz	40MHz	41MHz	72MHz	75MHz
MULTIPLEX		i	i	i	i	i	i
GRAUPNER	i	i		i			
FUTABA		i		i			
HITEC		i		i	i		
AM		i		i			
ACOMS				i			

Receivers for single conversion

	27MHz	35MHz	36MHz	40MHz	41MHz	72MHz	75MHz
MULTIPLEX		i	i	i	i	i	i
GRAUPNER	i	i		i			
FUTABA		i		i			
HITEC		i		i	i		
AM		i		i			
ACOMS				i			

Receivers for dual conversion

		35MHz	36MHz	40MHz	41MHz	72MHz	
MULTIPLEX		i	i	i	i	i	
GRAUPNER		i		i			
FUTABA		i		i			
HITEC		i		i	i		

Detailed overview of frequency bands and channels can be found on our website.