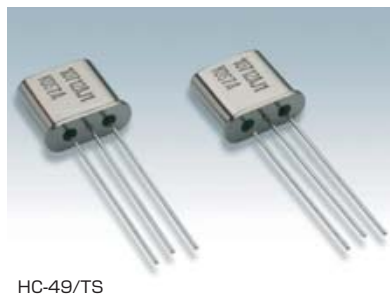


Monolithic Crystal Filters

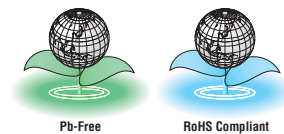
HC-49 SERIES 2POLE, 4POLE



HC-49/T



HC-49/TS



■ Features

- Excellent frequency stability
- High precision and high reliability
- Offers a wide frequency range from a comparatively low 10MHz.

■ Applications

- Radio communications

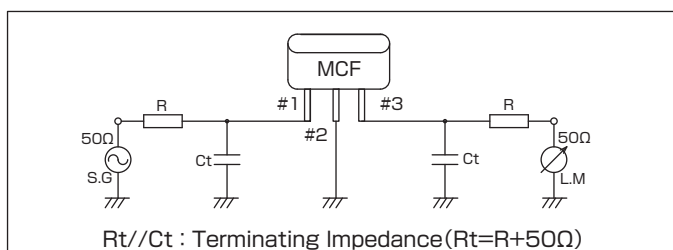
■ Standard Specification

Type	HC-49/T (HC-49/TS)				
Model	D10707A	D10707B	D10712A	D10712B	D10715A
Pole(Number of elements)	2(1)	4(2)	2(1)	4(2)	2(1)
Overtone Order	Fundamental	Fundamental	Fundamental	Fundamental	Fundamental
Nominal Frequency	10.700 MHz	10.700 MHz	10.700 MHz	10.700 MHz	10.700 MHz
Pass Bandwidth	±3.75kHz min./3dB	±3.75kHz min./3dB	±6kHz min./3dB	±6kHz min./3dB	±7.50kHz min./3dB
Stop Bandwidth	±18kHz max./20dB	±14kHz max./40dB	±20kHz max./18dB	±20kHz max./40dB	±25kHz max./18dB
Ripple	0.5dB max.	1dB max.	0.5dB max.	1dB max.	0.5dB max.
Insertion Loss	2dB max.	2.5dB max.	2dB max.	2.5dB max.	2dB max.
Guaranteed Attenuation	40dB min.	80dB min.	40dB min.	80dB min.	40dB min.
Terminating Impedance	1800Ω//5pF	1800Ω//4pF Cc=12pF	3000Ω//3pF	2800Ω//1.5pF Cc=7pF	3000Ω//2pF
Operating Temperature Range	-20~+70°C				

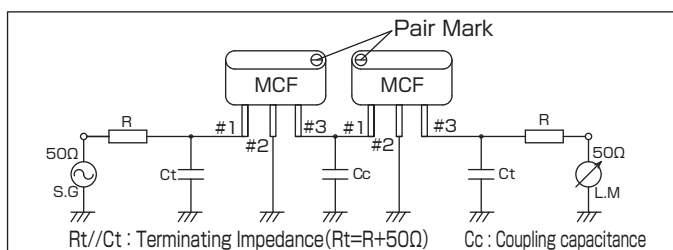
Type	HC-49/T (HC-49/TS)				
Model	D10715B	D10730A	D10730B	D10003AH	D12812BH
Pole(Number of elements)	4(2)	2(1)	4(2)	2(1)	4(2)
Overtone Order	Fundamental	Fundamental	Fundamental	Fundamental	Fundamental
Nominal Frequency	10.700 MHz	10.700 MHz	10.700 MHz	10.000 MHz	12.800 MHz
Pass Bandwidth	±7.5kHz min./3dB	±15kHz min./3dB	±15kHz min./3dB	±1.5kHz min./3dB	±6kHz min./3dB
Stop Bandwidth	±25kHz max./40dB	±50kHz max./18dB	±50kHz max./40dB	25kHz max./30dB	±20kHz max./40dB
Ripple	1dB max.	0.5dB max.	1dB max.	0.5dB max.	1dB max.
Insertion Loss	2.5dB max.	2dB max.	2.5dB max.	3dB max.	2.5dB max.
Guaranteed Attenuation	80dB min.	35dB min.	70dB min.	40dB min.	80dB min.
Terminating Impedance	3200Ω//0.5pF Cc=4.5pF	5000Ω//1pF	6500Ω//1pF Cc=-0.5pF	1000Ω//8pF	1600Ω//3pF Cc=11.5pF
Operating Temperature Range	-20~+70°C				

Consult our sales representative for other specifications

■ Measurement circuit 2POLE



■ Measurement Circuit 4POLE



■ Dimensions[mm]

PinNo.	Signal
#1	INPUT/OUTPUT
#2	GND.
#3	OUTPUT/INPUT

	HC-49/T	HC-49/TS
A	10.7±0.3	10.7±0.3
B	4.4±0.3	4.4±0.3
C	11.1±0.3	9.4±0.4
D	20±1	20±1
E	φ0.43+0.05/-0.02	φ0.43+0.05/-0.02
F	4.88±0.2	4.88±0.2