

Lead Type Monolithic Crystal Filters

HC-49/T 2POLE (FUND; 10MHz~15MHz)

Item Name	Nominal Frequency	Pass Bandwidth		Attenuation Bandwidth		Ripple	Insertion Loss	Terminal Impedance	Operating Temperature Range
	[MHz]	[dB]	[kHz]	[dB]	[kHz]	[dB]	[dB]	Rt//Ct [Ω //pF]	[°C]
10707AH	10.700	3	± 3.75	20	± 18.00	0.5	2.0	1800//5	-20~+70
10712AH	10.700	3	± 6.00	18	± 20.00	0.5	2.0	3000//3	-20~+70
10715AH	10.700	3	± 7.50	18	± 25.00	0.5	2.0	3000//2	-20~+70
10730AH	10.700	3	± 15.00	18	± 50.00	0.5	2.0	5000//1	-20~+70

UM TYPE 2POLE (FUND; 15MHz~60MHz, 3rd; 45MHz~110MHz)

Item Name	Nominal Frequency	Pass Bandwidth		Attenuation Bandwidth		Ripple	Insertion Loss	Terminal Impedance	Operating Temperature Range
	[MHz]	[dB]	[kHz]	[dB]	[kHz]	[dB]	[dB]	Rt//Ct [Ω //pF]	[°C]
21407A	21.400	3	± 3.50	16	± 12.50	1.0	2.5	1500//6.0	-20~+70
21407A	21.400	3	± 3.75	18	± 14.00	1.0	2.5	850//5.0	-20~+70
21409A	21.400	3	± 4.50	14	± 12.50	1.0	2.0	1500//4.0	-20~+70
21412A	21.400	3	± 6.00	15	± 20.00	1.0	2.0	1200//2.5	-20~+70
21415A	21.400	3	± 7.50	18	± 25.00	1.0	2.0	1500//3.0	-20~+70
21420A	21.400	3	± 10.00	10	± 25.00	1.0	2.0	1800//1.5	-20~+70
21430A	21.400	3	± 15.00	15	± 45.00	1.0	2.0	3000//0.5	-20~+70
21707A	21.700	3	± 3.50	16	± 12.50	1.0	2.5	1500//6.0	-20~+70
21707A	21.700	3	± 3.75	18	± 14.00	1.0	2.5	850//5.0	-20~+70
21709A	21.700	3	± 4.50	14	± 12.50	1.0	2.0	1500//4.0	-20~+70
21712A	21.700	3	± 6.00	15	± 20.00	1.0	2.0	1200//2.5	-20~+70
21715A	21.700	3	± 7.50	18	± 25.00	1.0	2.0	1500//3.0	-20~+70
21720A	21.700	3	± 10.00	10	± 25.00	1.0	2.0	1800//1.5	-20~+70
21730A	21.700	3	± 15.00	15	± 45.00	1.0	2.0	3000//0.5	-20~+70
23007A	23.050	3	± 3.75	16	± 12.50	1.0	2.5	1600//5.0	-20~+70
23015A	23.050	3	± 7.50	18	± 25.00	1.0	2.0	1500//3.0	-20~+70
30815A	30.875	3	± 7.50	18	± 25.00	1.0	2.0	800//6.0	-20~+70
45007A	45.000	3	± 3.50	10	± 12.50	1.0	3.0	510//5.5	-20~+70
45015A	45.000	3	± 7.50	14	± 25.00	1.0	2.5	550//3.0	-20~+70
45030A	45.000	3	± 15.00	10	± 50.00	1.0	2.5	800//1.5	-20~+70
55820A	55.845	3	± 10.00	20	± 40.00	1.0	2.5	3600//0.8	-20~+70



49/T



UM-1



UM-4



UM-5

Lead Type Monolithic Crystal Filters

HC-49/T 4POLE (FUND; 10MHz~15MHz)

Item Name	Nominal Frequency	Pass Bandwidth		Attenuation Bandwidth		Ripple	Insertion Loss	Terminal Impedance	Operating Temperature Range
	[MHz]	[dB]	[kHz]	[dB]	[kHz]	[dB]	[dB]	Rt//Ct//Cc [Ω //pF//pF]	[°C]
10707BH	10.700	3	± 3.75	40	± 14.00	1.0	2.5	1800//4.0//12	-20~+70
10712BH	10.700	3	± 6.00	40	± 20.00	1.0	2.5	2800//1.5// 7	-20~+70
10715BH	10.700	3	± 7.50	40	± 25.00	1.0	2.5	3000//1.0// 5	-20~+70
10730BH	10.700	3	± 15.00	40	± 50.00	1.0	2.5	5500//—1// 0	-20~+70

UM TYPE 4POLE (FUND; 15MHz~60MHz, 3rd; 45MHz~90MHz)

Item Name	Nominal Frequency	Pass Bandwidth		Attenuation Bandwidth		Ripple	Insertion Loss	Terminal Impedance	Operating Temperature Range
	[MHz]	[dB]	[kHz]	[dB]	[kHz]	[dB]	[dB]	Rt//Ct//Cc [Ω //pF//pF]	[°C]
21407B	21.400	3	± 3.75	40	± 14.00	1.0	2.5	850//5.0//16.0	-20~+70
21408B	21.400	3	± 4.00	40	± 16.00	1.0	2.5	1000//4.0//13.5	-20~+70
21412B	21.400	3	± 6.00	40	± 20.00	1.0	2.5	1200//2.5//10.5	-20~+70
21415B	21.400	3	± 7.50	40	± 25.00	1.0	2.5	1500//2.0// 8.0	-20~+70
21430B	21.400	3	± 15.00	40	± 50.00	1.0	2.5	3300//0.5// 3.0	-20~+70
21707B	21.700	3	± 3.75	40	± 14.00	1.0	2.5	850//5.0//16.0	-20~+70
21712B	21.700	3	± 6.00	40	± 20.00	1.0	2.5	1200//2.5//10.5	-20~+70
21715B	21.700	3	± 7.50	40	± 25.00	1.0	2.5	1500//2.0// 8.0	-20~+70
21730B	21.700	3	± 15.00	40	± 50.00	1.0	2.5	3300//0.5// 3.0	-20~+70
30815B	30.875	3	± 7.50	40	± 25.00	1.0	2.5	800//4.0//12.0	-20~+70
45015B	45.000	3	± 7.50	40	± 25.00	1.0	3.0	650//3.0//10.0	-20~+70
45030B	45.000	3	± 15.00	30	± 40.00	1.0	3.0	800//1.5// 7.0	-20~+70
55009B	55.000	3	± 4.50	50	± 25.00	1.0	4.0	220//7.0//23.0	-20~+70

■ Dimensions[mm]

	A	B	C	D	E	F
UM-1	7.8 $\pm$ 0.2	3.0 $\pm$ 0.2	7.8 $\pm$ 0.2	12.5 $\pm$ 1	ϕ 0.35 $\pm$ 0.05	3.75 $\pm$ 0.2
UM-4	7.8 $\pm$ 0.2	3.0 $\pm$ 0.2	4.3 $\pm$ 0.2	12.5 $\pm$ 1	ϕ 0.35 $\pm$ 0.05	3.75 $\pm$ 0.2
UM-5	7.8 $\pm$ 0.2	3.0 $\pm$ 0.2	5.8 $\pm$ 0.2	12.5 $\pm$ 1	ϕ 0.35 $\pm$ 0.05	3.75 $\pm$ 0.2
HC-49/T	10.7 $\pm$ 0.3	4.4 $\pm$ 0.3	11.0 $\pm$ 0.3	20.0 $\pm$ 1	ϕ 0.43 $\pm$ 0.05-0.02	4.88 $\pm$ 0.2

