



Completely Lead-Free

Lead Type Monolithic Crystal Filters

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

Generic Specification



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

HC-49/T

Consult our sales representative for other specifications.

UM-2 2POLE (Fundamental; 10MHz~15MHz)

Generic Specification



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

UM-2

Consult our sales representative for other specifications.

UM-1,UM-5 2POLE (Fundamental; 15MHz~60MHz, 3rd overtone;45MHz~110MHz)

Generic Specification



UM-1

| Type | Nominal Frequency | Pass Bandwidth | | Attenuation Bandwidth | | Ripple | Insertion Loss | Terminal Impedance |
|-----------------------------|-------------------|----------------|--------|-----------------------|--------|--------|----------------|--------------------|
| | [MHz] | [dB] | [kHz] | [dB] | [kHz] | [dB] | [dB] | Rt[Ω]//Ct[pF] |
| 21407AD | 21.400 | 3 | ±3.50 | 16 | ±12.50 | 1.0 | 2.5 | 1500 // 6 |
| 21409AD | 21.400 | 3 | ±4.50 | 14 | ±12.50 | 1.0 | 2.0 | 1500 // 4 |
| 21412AD | 21.400 | 3 | ±6.00 | 15 | ±20.00 | 1.0 | 2.0 | 1200 // 2.5 |
| 21415AD | 21.400 | 3 | ±7.50 | 18 | ±25.00 | 1.0 | 2.0 | 1500 // 3 |
| 21420AD | 21.400 | 3 | ±10.00 | 10 | ±25.00 | 1.0 | 2.0 | 1800 // 1.5 |
| 21430AD | 21.400 | 3 | ±15.00 | 15 | ±45.00 | 1.0 | 2.0 | 3000 // 0.5 |
| 21707AD | 21.700 | 3 | ±3.50 | 16 | ±12.50 | 1.0 | 2.5 | 1500 // 6 |
| 21709AD | 21.700 | 3 | ±4.50 | 14 | ±12.50 | 1.0 | 2.0 | 1500 // 4 |
| 21712AD | 21.700 | 3 | ±6.00 | 15 | ±20.00 | 1.0 | 2.0 | 1200 // 2.5 |
| 21715AD | 21.700 | 3 | ±7.50 | 18 | ±25.00 | 1.0 | 2.0 | 1500 // 3 |
| 21720AD | 21.700 | 3 | ±10.00 | 10 | ±25.00 | 1.0 | 2.0 | 1800 // 1.5 |
| 21730AD | 21.700 | 3 | ±15.00 | 15 | ±45.00 | 1.0 | 2.0 | 3000 // 0.5 |
| 23007AD | 23.050 | 3 | ±3.75 | 16 | ±12.50 | 1.0 | 2.5 | 1600 // 5 |
| 23015AD | 23.050 | 3 | ±7.50 | 18 | ±25.00 | 1.0 | 2.0 | 1500 // 3 |
| 30815AD | 30.875 | 3 | ±7.50 | 18 | ±25.00 | 1.0 | 2.0 | 800 // 6 |
| 45007AD | 45.000 | 3 | ±3.50 | 10 | ±12.50 | 1.0 | 3.0 | 510 // 5.5 |
| 45015AD | 45.000 | 3 | ±7.50 | 14 | ±25.00 | 1.0 | 2.5 | 550 // 3 |
| 45030AD | 45.000 | 3 | ±15.00 | 10 | ±50.00 | 1.0 | 2.5 | 800 // 1.5 |
| 55115AD | 55.100 | 3 | ±7.50 | 14 | ±25.00 | 1.0 | 2.5 | 600 // 4 |
| 55820AD | 55.845 | 3 | ±10.00 | 20 | ±40.00 | 1.0 | 2.5 | 3600 // -0.8 |
| Operating Temperature Range | -20~+70°C | | | | | | | |

UM-5

Consult our sales representative for other specifications.

UM-4 2POLE (Fundamental; 45MHz~60MHz)

Generic Specification



UM-4

| Type | Nominal Frequency | Pass Bandwidth | | Attenuation Bandwidth | | Ripple | Insertion Loss | Terminal Impedance |
|-----------------------------|-------------------|----------------|--------|-----------------------|--------|--------|----------------|--------------------|
| | [MHz] | [dB] | [kHz] | [dB] | [kHz] | [dB] | [dB] | Rt[Ω]//Ct[pF] |
| 45007AC | 45.000 | 3 | ±3.50 | 10 | ±12.50 | 1.0 | 3.0 | 510 // 5.5 |
| 45015AC | 45.000 | 3 | ±7.50 | 14 | ±25.00 | 1.0 | 2.5 | 550 // 3 |
| 45030AC | 45.000 | 3 | ±15.00 | 10 | ±50.00 | 1.0 | 2.5 | 800 // 1.5 |
| 55115AC | 55.100 | 3 | ±7.50 | 14 | ±25.00 | 1.0 | 2.5 | 600 // 4 |
| 58515AC | 58.525 | 3 | ±7.50 | 18 | ±30.00 | 1.0 | 2.5 | 350 // 4 |
| Operating Temperature Range | -20~+70°C | | | | | | | |

Consult our sales representative for other specifications.