

Crystal Filter

7D Series UM-5/UM-5MJ Crystal Filter

21.7MHz~45MHz

Package: DIP/SMD



Features

- Low insertion loss
- High selectivity
- Good inter-modulation and high stability over a wide temperature range
- Excellent guaranteed attenuation
- Application for VHF & UHF radio, Wireless telemetry, Pagers, Wireless LAN, Radio communications, Communications, etc,
- RoHS Compliant /Pb Free



Standard Specifications

| Channel Spacing (KHz) | Model | No. of Poles | Pass Bandwidth | | Stop Bandwidth | | Ripple | Insertion Loss | Guaranteed Attenuation | | Terminating Impedance | Package | |
|-----------------------|---------|--------------|----------------|------------|----------------|------------|-----------|----------------|------------------------|------------|-----------------------|-------------|-------------|
| | | | dB | kHz (min.) | dB | kHz (max.) | dB (max.) | dB (max.) | dB | kHz | ohms // pF | Tandem Set | One Package |
| 12.5 | 21M7.5A | 2 | 3 | ±3.75 | 20 | ±18 | 0.5 | 1.5 | 35 | ±300~±1000 | 850 // 6.0 | UM-5 | |
| | 21M7.5B | 4 | 3 | ±3.75 | 40 | ±15 | 1.0 | 2.5 | 65 | ±300~±1000 | 850 // 5.0 | UM-5 a pair | |
| | 21M7.5C | 6 | 3 | ±3.75 | 45 | ±8.75 | 2.0 | 3.0 | 65 | ±12.5~±300 | 850 // 5.0 | UM-5 3 pcs | S1 |
| | 21M7.5D | 8 | 3 | ±3.75 | 65 | ±8.75 | 2.0 | 4.0 | 90 | ±12.5~±300 | 850 // 5.0 | UM-5 4 pcs | S2 |
| 20.0 | 21M12A | 2 | 3 | ±6.0 | 20 | ±25 | 0.5 | 1.5 | 35 | ±300~±1000 | 1.2K // 3.0 | UM-5 | |
| | 21M12B | 4 | 3 | ±6.0 | 40 | ±20 | 1.0 | 2.5 | 65 | ±300~±1000 | 1.2K // 2.5 | UM-5 a pair | |
| | 21M12C | 6 | 3 | ±6.0 | 45 | ±15 | 2.0 | 3.0 | 65 | ±20~±300 | 1.2K // 2.5 | UM-5 3 pcs | S1 |
| | 21M12D | 8 | 3 | ±6.0 | 65 | ±15 | 2.0 | 4.0 | 90 | ±20~±300 | 1.2K // 2.5 | UM-5 4 pcs | S2 |
| 25.0 | 21M15A | 2 | 3 | ±7.5 | 18 | ±25 | 0.5 | 1.5 | 35 | ±300~±1000 | 1.5K // 2.0 | UM-5 | |
| | 21M15B | 4 | 3 | ±7.5 | 40 | ±25 | 1.0 | 2.5 | 55 | ±300~±1000 | 1.5K // 2.0 | UM-5 a pair | |
| | 21M15C | 6 | 3 | ±7.5 | 45 | ±18 | 2.0 | 3.0 | 65 | ±25~±300 | 1.5K // 2.0 | UM-5 3 pcs | S1 |
| | 21M15D | 8 | 3 | ±7.5 | 65 | ±18 | 2.0 | 4.0 | 90 | ±25~±300 | 1.5K // 2.0 | UM-5 4 pcs | S2 |
| 50.0 | 21M30A | 2 | 3 | ±15 | 15 | ±45 | 0.5 | 1.5 | 30 | ±300~±1000 | 1.5K // 1.0 | UM-5 | |
| | 21M30B | 4 | 3 | ±15 | 40 | ±50 | 1.0 | 2.5 | 30 | ±300~±300 | 2.2K // 0.5 | UM-5 a pair | |
| | 21M30C | 6 | 3 | ±15 | 45 | ±35 | 2.0 | 3.0 | 60 | ±45~±300 | 2.2K // 0.5 | UM-5 3 pcs | S1 |
| | 21M30D | 8 | 3 | ±15 | 65 | ±35 | 2.0 | 3.5 | 90 | ±50~±300 | 2.2K // 0.5 | UM-5 4 pcs | S2 |
| 12.5 | 45M7.5A | 2 | 3 | ±3.75 | 10 | ±12.5 | 1.0 | 2.0 | 65 | ±300~±1000 | 200 // 4.0 | UM-5 | |
| | 45M7.5B | 4 | 3 | ±3.75 | 30 | ±12.5 | 1.0 | 4.0 | 80 | ±300~±1000 | 350 // 6.5 | UM-5 a pair | |
| 25.0 | 45M15A | 2 | 3 | ±7.5 | 15 | ±25 | 1.0 | 2.0 | 35 | ±300~±1000 | 650 // 3.0 | UM-5 | |
| | 45M15B | 4 | 3 | ±7.5 | 30 | ±25 | 1.0 | 3.0 | 80 | ±300~±300 | 650 // 3.0 | UM-5 a pair | |
| 50.0 | 45M30A | 2 | 3 | ±15 | 15 | ±60 | 1.0 | 2.5 | 35 | ±300~±1000 | 1.2K // 0 | UM-5 | |
| | 45M30B | 4 | 3 | ±15 | 30 | ±50 | 1.0 | 3.0 | 80 | ±300~±1000 | 1.2K // 0.7 | UM-5 a pair | |

Dimensions

[mm]

UM-5 Series

4 Pole M.C.F. (Paired package, Tandem set)

Color dots for pair orientation match

User to provide Cc

UM-5MJ Series

(S-1), (S-2)---One Package Type

Pin Connection

Pin 1: Output
Pin 2: Ground
Pin 3: Ground
Pin 4: Input

| | L | P |
|-----|------|-----|
| L-1 | 11.0 | 7.4 |
| L-2 | 13.4 | 9.8 |