

2133 & 4133 Series Front-End Filters: 10.0MHz to 220 MHz

- Fixed bandwidth (± 6.75 kHz) 2-pole and 4-pole crystal filters
- Applications where filtering incoming radio signals is required to reduce or eliminate interference

Ordering Information

2133/4133 VBB 00.000
MHz

Product Series _____

Designator _____

Blank=F (Through Hole)
See chart for correct designator or
contact the factory for additional connector types

Frequency _____

(Customer Specified)
See Frequency Range Chart

The ordering convention for a connectorized 2133/4133 Series filters with SMA-Female connectors on both the input and output would be 4133VBM @ 100.00MHz. For other, most popular connector types, reference the table and for others not listed consult the factory.

| Designator | Connector Set (Input & Output) | Designator | Connector Set (Input & Output) |
|------------|--------------------------------|------------|--------------------------------|
| VBB | BNC-Female & BNC-Female | VBP | RCA- Female & RCA- Female |
| VBC | UHF- Female & UHF- Female | VBR | N- Female & N-Male |
| VBI | OSM-212 & OSM-212 | VBU | F- Female & F- Female |
| VBL | TNC- Female & TNC- Female | VBV | SMC- Female & SMC- Female |
| VBM | SMA- Female & SMA- Female | VBW | UHF- Female & S)-239 |
| VBN | N- Female & N- Female | VBX | N-Male & N-Male |
| VBO | BNC-Male & BNC- Female | VBZ | PL-259 and SO-239 |

**2133/4133
2-pole or
4-pole
tandem set
F case
package**



**2133/4133
50 Ω terminated
connectorized
package**

| Family Designation | Frequency Range (MHz) | Stopband | Insertion Loss (dB) | Amplitude Ripple (dB) | Ultimate Attenuation (dB) | Operating Temperature |
|--------------------|-----------------------|-----------------------|---------------------|-----------------------|---------------------------|-----------------------|
| 2133 | 10.0 to 35.99 | ± 40.0 kHz @ 20dB | 3 | 1.0 | 30 | -20°C to +70°C |
| | 36.0 to 89.99 | ± 40.0 kHz @ 20dB | 4 | | 30 | |
| | 90.0 to 137.99 | ± 60.0 kHz @ 20dB | 4 | | 30 | |
| | 138.0 to 220.0 | ± 60.0 kHz @ 20dB | 5 | | 30 | |
| 4133 | 10.0 to 35.99 | ± 26.0 kHz @ 20dB | 3 | | 60 | |
| | | ± 50.0 kHz @ 40dB | 4 | | 60 | |
| | 36.0 to 89.99 | ± 26.0 kHz @ 20dB | 4 | | 50 | |
| | | ± 50.0 kHz @ 40dB | 5 | | 60 | |
| | 90.0 to 137.99 | ± 30.0 kHz @ 20dB | 5 | | 60 | |
| | | ± 50.0 kHz @ 40dB | 6 | | 60 | |
| | 138.0 to 220.0 | ± 30.0 kHz @ 20dB | 6 | | 60 | |
| | | ± 50.0 kHz @ 40dB | 7 | | 60 | |

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