

## Band Reject Filter

The Band Reject Filter facilitates the migration to DOCSIS 3.1. The filters combine the needs for the TV packages with the needs for DOCSIS 3.1 data distribution. The TV package filters effectively remove all channels above a certain threshold defined by the operator. And with the need for data DOCSIS 3.1 distribution above the traditional TV band, the band stop filter opens up for transmission at the high frequencies.



Other pass/stop combinations are available upon request.

| Type        | Item no.: | Data                 |  |
|-------------|-----------|----------------------|--|
| BRF 374-550 | 42485     | Pass<br>Stop<br>Pass | 5 - 350 MHz<br>374 - 550 MHz<br>574 - 1218 MHz |
| BRF 446-550 | 42486     | Pass<br>Stop<br>Pass | 5 - 422 MHz<br>446 - 550 MHz<br>574 - 1218 MHz |
| BRF 510-550 | 42487     | Pass<br>Stop<br>Pass | 5 - 486 MHz<br>510 - 550 MHz<br>574 - 1218 MHz |

|                      | BRF 374-550                     |              | BRF 446-550  |              | BRF 510-550  |              |
|----------------------|---------------------------------|--------------|--------------|--------------|--------------|--------------|
| <b>Pass band 1</b>   | 5 - 350 MHz                     |              | 5 - 422 MHz  |              | 5 - 486 MHz  |              |
| Insertion loss       | 2.0 dB (typ)                    | 2.5 dB (max) | 2.0 dB (typ) | 2.5 dB (max) | 2.0 dB (typ) | 3.0 dB (max) |
| Return loss          | 5-320 MHz                       | >14 dB       | 5-380 MHz    | >14 dB       | 5-410 MHz    | >14 dB       |
|                      | 320-350 MHz                     | >12 dB       | 380-422 MHz  | >12 dB       | 410-486 MHz  | >12 dB       |
| <b>Stop band</b>     | 374-550 MHz                     |              | 446-550 MHz  |              | 510-550 MHz  |              |
| Rejection            | 374-540 MHz                     | >45 dB       | 446-540 MHz  | >45 dB       | 510-540 MHz  | >45 dB       |
| Rejection            | 540-550 MHz                     | >35 dB       | 540-550 MHz  | >35 dB       | 540-550 MHz  | >35 dB       |
| <b>Pass band 2</b>   | 574-1218 MHz                    |              |              |              |              |              |
| Insertion loss       | 2.5 dB (typ) / 3.0 dB (max)     |              |              |              |              |              |
| Return loss          | 574-630 MHz                     |              |              |              |              | >12 dB       |
|                      | 630-1218 MHz                    |              |              |              |              | >14 dB       |
| Screening efficiency | Class A (EN 50083-2)            |              |              |              |              |              |
| Housing              | Nickel plated Copper            |              |              |              |              |              |
| Connectors           | F-male / F-female (EN 61169-24) |              |              |              |              |              |
| Dimension            | Ø 21 mm x L 57 mm               |              |              |              |              |              |
| Weight               | 48 g                            |              |              |              |              |              |