

# DB3176 (350-512 MHz)

UHF Transmit or Receive Window Filter

## ELECTRICAL SPECIFICATIONS

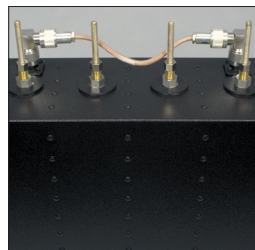
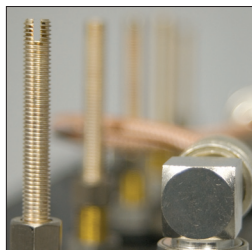
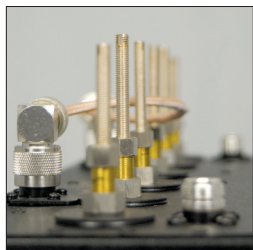
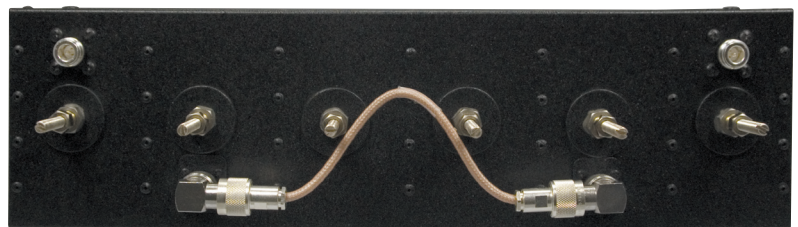
|                       |                              |
|-----------------------|------------------------------|
| Frequency Range, MHz  | See Ordering Information     |
| Pass Bandwidth, MHz   | See Ordering Information     |
| Isolation, dB         | 45 ± 2.5 MHz from band edges |
| Insertion Loss, dB    | 1.5                          |
| Return Loss (min), dB | 14                           |
| Impedance, Ohms       | 50                           |
| Power Rating, Watts   | 300                          |

## MECHANICAL SPECIFICATIONS

|                            |                   |
|----------------------------|-------------------|
| Construction/Finish        | Copper/Black      |
| Input Connector            | N(F), 7/16 DIN(F) |
| Mounting                   | EIA 19-inch Rack  |
| Temperature Range, degrees | -30 to +60 C      |

## DIMENSIONS

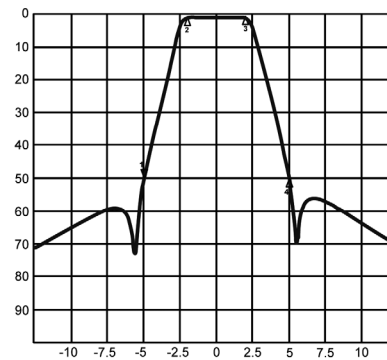
|                         |                      |
|-------------------------|----------------------|
| Cavity Size, in(mm)     | 2.8 x 5 (71.1 x 127) |
| Width, in(mm)           | 19 (482.6)           |
| Height, in(mm)          | 5.3 (133.4)          |
| Height, RU              | 3                    |
| Depth, in(mm)           | 11 (279.4)           |
| Net Weight, lb(kg)      | 17 (7.7)             |
| Shipping Weight, lb(kg) | 27 (12.2)            |



## FEATURES AND BENEFITS

- Flat passband with steep-sloped rejection characteristic to isolate undesired out-of-band frequencies.
- Materials are all copper; VSWR is 1.5:1 or better.
- Frequency is stable at all power levels to 300 Watts.

## SELECTIVITY CURVE



## ORDERING INFORMATION

| Model Number | Frequency (MHz) | Pass Bandwidth (MHz) | Application |
|--------------|-----------------|----------------------|-------------|
| DB3176-A     | 406-430         | 4                    | TX or RX    |
| DB3176-C     | 450-470         | 4                    | TX only     |
| DB3176-D     | 470-512         | 3                    | TX only     |
| DB3176-E     | 370-410         | 5                    | TX or RX    |
| DB3176-F     | 350-370         | 5                    | TX or RX    |

### NOTES:

- \* Use DB3777 on receivers in 450-512 MHz range.
- \* DIN models available, add "D" to end of model number.