# Band-stop Filter · 4100–4200 MHz

The DC–4080 MHz and 4220–6500 MHz passbands have a maximum insertion loss of 3 dB. SMA-K interfaces are provided, with a design-guaranteed power capacity of 50 W.

## RF Performance

| Parameter | Value |
|---|---|
| Stopband | 4100–4200 MHz |
| Stopband Rejection | ≥70 dB (4100–4200 MHz) |
| Lower Passband | DC–4080 MHz |
| Upper Passband | 4220–6500 MHz |
| Passband Insertion Loss | ≤3 dB (DC–4080 MHz; 4220–6500 MHz) |
| Passband VSWR | ≤1.8 (DC–4080 MHz; 4220–6500 MHz) |

## Design Ratings

| Parameter | Value |
|---|---|
| Power Handling | 50 W (Guaranteed by design) |

## Typical series reference data

Several connector configurations share these typical data. Separate measurements for each configuration are unconfirmed.

| Parameter | S12 (dB) | S11 VSWR |
|---|---|---|
| 4000 MHz | -0.62 | 1.66 |
| 4080 MHz | -2.85 | 1.45 |
| 4085 MHz | -6.07 | 8.36 |
| 4090 MHz | -21.71 | 14.38 |
| 4095 MHz | -61.74 | 28.73 |
| 4100 MHz | -99.20 | 40.31 |
| 4120 MHz | -89.04 | 45.24 |
| 4150 MHz | -79.62 | 49.1 |
| 4180 MHz | -79.79 | 43.35 |
| 4200 MHz | -95.85 | 34.95 |
| 4205 MHz | -60.65 | 31.87 |
| 4210 MHz | -21.65 | 17.73 |
| 4215 MHz | -6.38 | 9.38 |
| 4220 MHz | -2.89 | 1.34 |

## Typical series reference data

Several connector configurations share these typical data. Separate measurements for each configuration are unconfirmed.

| Parameter | S12 (dB) | S11 VSWR |
|---|---|---|
| 4300 MHz | -0.7 | 1.57 |

## Mechanical and Interface Specifications

| Parameter | Value |
|---|---|
| RF Connector | SMA-K |
| Connector Shell Material | 304 stainless steel |
| RF Impedance | 50 Ω |
| Surface Finish | Black baked paint |
| Body Length | 300 mm |
| Body Width | 70 mm |
| Overall Length Including Flanges | 320 mm |
| Longitudinal Mounting Pitch | 310 mm |
| Transverse Mounting Pitch | 62 mm |
| Through-hole Diameter | 4.5 mm |
| Connector Center Spacing | 32 mm |
| Flange Thickness | 3 mm |
| Connector Axis Distance Below Body Top | 10.5 mm |
| Overall Height | <45 mm |
| Through-hole Count | 4 |

## Handling and Installation

Both RF connectors are on the same end of the housing. Clean the product surface without immersing the product in cleaning fluid. For conditions in which the overall product temperature exceeds 125 °C, consult LCRF before ordering.

**Document notice**

Specifications are subject to revision. Before design release, confirm the current document revision and product-specific requirements with LCRF. The approved quotation and order documentation define the supplied configuration.