# Band-stop Filter · 4800–4960 MHz

Power capacity is 150 W as a design guarantee. The DC–4780 MHz and 4980–6500 MHz passbands have a maximum insertion loss of 3 dB; the body measures 300 × 70 mm.

## RF Performance

| Parameter | Value |
|---|---|
| Stopband | 4800–4960 MHz |
| Stopband Rejection | ≥70 dB (4800–4960 MHz) |
| Lower Passband | DC–4780 MHz |
| Upper Passband | 4980–6500 MHz |
| Passband Insertion Loss | ≤3 dB (DC–4780 MHz; 4980–6500 MHz) |
| Passband VSWR | ≤1.8 (DC–4780 MHz; 4980–6500 MHz) |

## Design Ratings

| Parameter | Value |
|---|---|
| Power Handling | 150 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 |
|---|---|---|
| 4700 MHz | -0.56 | 1.29 |
| 4780 MHz | -2.78 | 1.48 |
| 4785 MHz | -10.86 | 9.73 |
| 4790 MHz | -20.74 | 12.64 |
| 4795 MHz | -41.43 | 18.54 |
| 4800 MHz | -98.12 | 32.13 |
| 4840 MHz | -98.31 | 42.04 |
| 4880 MHz | -86.93 | 42.74 |
| 4920 MHz | -76.27 | 48.77 |
| 4960 MHz | -88.76 | 46.36 |
| 4965 MHz | -38.37 | 26.64 |
| 4970 MHz | -14.77 | 12.88 |
| 4975 MHz | -5.74 | 6.97 |
| 4980 MHz | -2.86 | 1.46 |

## Typical series reference data

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

| Parameter | S12 (dB) | S11 VSWR |
|---|---|---|
| 5100 MHz | -0.73 | 1.24 |

## 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.