# Band-stop Filter · 1860–1875 MHz

Insertion loss is at most 2.5 dB in both passbands, DC–1845 MHz and 1890–6000 MHz. Both connectors are on the same end of the housing.

## RF Performance

| Parameter | Value |
|---|---|
| Stopband | 1860–1875 MHz |
| Stopband Rejection | ≥60 dB (1860–1875 MHz) |
| Lower Passband | DC–1845 MHz |
| Upper Passband | 1890–6000 MHz |
| Passband Insertion Loss | ≤2.5 dB (DC–1845 MHz / 1890–6000 MHz) |
| Passband VSWR | ≤1.8 (DC–1845 MHz / 1890–6000 MHz) |

## Design Ratings

| Parameter | Value |
|---|---|
| Power Handling | 150 W (Guaranteed by design) |
| Operating Temperature | –10...+50 °C (Guaranteed by design) |

## Typical series reference data

The N-K and SMA-K configurations share these typical series reference data.

| Parameter | S12 (dB) | S11 VSWR |
|---|---|---|
| 1800 MHz | -0.36 | 1.48 |
| 1845 MHz | -1.88 | 1.33 |
| 1850 MHz | -3.03 | 3.37 |
| 1855 MHz | -8.78 | 9.81 |
| 1860 MHz | -87.35 | 46.88 |
| 1863 MHz | -69.06 | 41.84 |
| 1865 MHz | -83.35 | 30.25 |
| 1868 MHz | -83.94 | 47.64 |
| 1870 MHz | -86.69 | 30.54 |
| 1873 MHz | -80.53 | 38.78 |
| 1875 MHz | -88.25 | 39.52 |
| 1880 MHz | -9.03 | 10.56 |
| 1885 MHz | -3.18 | 3.85 |

## Typical series reference data

The N-K and SMA-K configurations share these typical series reference data.

| Parameter | S12 (dB) | S11 VSWR |
|---|---|---|
| 1890 MHz | -2.11 | 1.29 |
| 1950 MHz | -0.45 | 1.45 |

## Mechanical and Interface Specifications

| Parameter | Value |
|---|---|
| RF Connector | N-K |
| Connector Shell Material | 304 stainless steel |
| RF Impedance | 50 Ω |
| Surface Finish | Black baked paint |
| Body Length | 300 mm |
| Body Width | 72 mm |
| Housing height from flange underside | <55 mm |
| Length Between Outer Flange Edges | 320 mm |
| Number of mounting slots | 4 |
| Mounting slot width | 4.5 mm |
| Arc-centre spacing within one slot | 10 mm |
| Slot-centre pitch, lengthwise | 310 mm |
| Slot-centre pitch, crosswise | 50 mm |
| Connector Center Spacing | 34 mm |
| RF axis offset from the top edge in side view | 10 mm |

## 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.