# Band-stop Filter · 738–758 MHz

The DC–708 MHz and 788–3000 MHz passbands have at most 2 dB insertion loss. Design guarantees cover 50 W power capacity and an operating range of −10...+50 °C.

## RF Performance

| Parameter | Value |
|---|---|
| Stopband | 738–758 MHz |
| Stopband Rejection | ≥50 dB (738–758 MHz) |
| Lower Passband | DC–708 MHz |
| Upper Passband | 788–3000 MHz |
| Passband Insertion Loss | ≤2 dB (DC–708 MHz; 788–3000 MHz) |
| Passband VSWR | ≤1.8 (DC–708 MHz; 788–3000 MHz) |

## Design Ratings

| Parameter | Value |
|---|---|
| Power Handling | 50 W (Guaranteed by design) |
| Operating Temperature | −10...+50 °C (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 |
|---|---|---|
| 675 MHz | -0.27 | 1.15 |
| 708 MHz | -1.78 | 1.29 |
| 718 MHz | -3.03 | 2.76 |
| 728 MHz | -11.98 | 12.53 |
| 738 MHz | -74.52 | 44.05 |
| 740 MHz | -59.65 | 40.78 |
| 745 MHz | -72.86 | 40.33 |
| 748 MHz | -80.53 | 49.73 |
| 750 MHz | -59.46 | 44.23 |
| 755 MHz | -59.51 | 47.01 |
| 758 MHz | -75.76 | 47.18 |
| 768 MHz | -12.52 | 11.79 |
| 778 MHz | -3.37 | 3.35 |

## Typical series reference data

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

| Parameter | S12 (dB) | S11 VSWR |
|---|---|---|
| 788 MHz | -1.86 | 1.35 |
| 825 MHz | -0.34 | 1.05 |

## Mechanical and Interface Specifications

| Parameter | Value |
|---|---|
| RF Connector | N-K |
| Connector Shell Material | 304 stainless steel |
| RF Impedance | 50 Ω |
| Surface Finish | Gray baked paint |
| Body Length | 201 mm |
| Body Width | 30 mm |
| Body Height | 18 mm |
| Longitudinal Mounting Pitch | 195 mm |
| Transverse Mounting Pitch | 24 mm |
| Thread Depth | 6 mm |
| RF axis offset from the lower edge in side view | 9 mm |
| Connector Axis Distance from Body Side | 15 mm |
| Mounting Threads | 4 × M2.5 |

## Handling and Installation

The two RF connectors are on opposite ends 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.