# Band-stop Filter · 844.5–849.5 MHz

Insertion loss is at most 2 dB in DC–814.5 MHz and 879.5–3500 MHz. The gray baked-paint body measures 201 × 30 × 18 mm.

## RF Performance

| Parameter | Value |
|---|---|
| Stopband | 844.5–849.5 MHz |
| Stopband Rejection | ≥50 dB (844.5–849.5 MHz) |
| Lower Passband | DC–814.5 MHz |
| Upper Passband | 879.5–3500 MHz |
| Passband Insertion Loss | ≤2 dB (DC–814.5 MHz; 879.5–3500 MHz) |
| Passband VSWR | ≤1.8 (DC–814.5 MHz; 879.5–3500 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 |
|---|---|---|
| 800 MHz | -0.25 | 1.52 |
| 814.5 MHz | -0.67 | 1.25 |
| 824.5 MHz | -1.66 | 1.58 |
| 834.5 MHz | -10.49 | 12.65 |
| 844.5 MHz | -80.17 | 32.47 |
| 845.5 MHz | -65.86 | 44.49 |
| 846.5 MHz | -77.99 | 45.94 |
| 847.5 MHz | -67.40 | 37.46 |
| 848.5 MHz | -63.28 | 34.72 |
| 849.5 MHz | -80.74 | 37.27 |
| 859.5 MHz | -11.58 | 11.44 |
| 869.5 MHz | -1.86 | 1.63 |
| 879.5 MHz | -0.77 | 1.33 |

## Typical series reference data

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

| Parameter | S12 (dB) | S11 VSWR |
|---|---|---|
| 900 MHz | -0.36 | 1.51 |

## Mechanical and Interface Specifications

| Parameter | Value |
|---|---|
| RF Connector | N-K |
| RF Impedance | 50 Ω |
| Connector Shell Material | 304 stainless steel |
| 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 |
| RF axis offset from the lower edge in side view | 9 mm |
| Connector Axis Distance from Body Side | 15 mm |
| Threaded Mounting Hole Count | 4 |
| Mounting Thread Size | M2.5 |
| Thread Depth | 6 mm |

## 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.