# Bandpass Filter · 1500–1750 MHz

Evaluate the 1500–1750 MHz passband separately from the −1 dB bandwidth. The −1 dB bandwidth is at least 310 MHz under the specified 1470–1780 MHz condition.

## RF Performance

| Parameter | Value |
|---|---|
| Passband | 1500–1750 MHz |
| Passband Insertion Loss [1] | ≤ 2.0 dB |
| Passband Ripple [1] | ≤ 1.0 dB |
| Out-of-Band Rejection · DC–1325 MHz | ≥ 30 dBc |
| Out-of-Band Rejection · 1960–4000 MHz | ≥ 30 dBc |
| VSWR [1] | ≤ 1.50 |
| Bandwidth at −1 dB [2] | ≥ 310 MHz |

[1] 1500–1750 MHz
[2] 1470–1780 MHz

## Design Ratings

Guaranteed by design

| Parameter | Value |
|---|---|
| Power Handling | 1 W |
| Operating Temperature | −40...+70 °C |
| Storage Temperature | −55...+85 °C |

## Mechanical Specifications

| Parameter | Value |
|---|---|
| RF Interface | Surface mount |
| RF Impedance | 50 Ω |
| Housing dimensions | 20 × 9 × 5 mm (Dimensional tolerance ±0.2 mm) |

## Installation and handling

Clean the product surface without immersing the filter in cleaning liquid. Supports reflow soldering at 190 °C. Use a 50 Ω microstrip line with a width as close as practical to the RF pad width, equal to it, or wider. For cutout mounting in multilayer microwave PCBs designed for frequencies above 2000 MHz, ensure proper grounding.

**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.