Bandpass Filter · 133.6–173.6 MHz

Use the 15 ns delay variation limit to evaluate signal timing. When laying out the board, use the RF port pad width as a reference for the 50 Ω microstrip trace.

RF Performance

Parameter	Value
Passband	133.6–173.6 MHz
Passband Insertion Loss [1]	≤ 3.0 dB
Passband Ripple [1]	≤ 1.0 dB
Out-of-Band Rejection · DC–113.6 MHz	≥ 40 dBc
Out-of-Band Rejection · 193.6–1000 MHz	≥ 40 dBc
VSWR [1]	≤ 1.50
Time-delay variation	≤ 15 ns

[1] 133.6–173.6 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.