Bandpass Filter · 40500–42500 MHz

Stopband Rejection ≥70 dBc (DC–39500 MHz) / ≥55 dBc (39500–40000 MHz) / ≥50 dBc (44000–50000 MHz). Body Footprint 34 × 15 mm.

RF Performance

Parameter	Value
Passband	40500–42500 MHz
Passband Insertion Loss [1]	≤3 dB
Passband Ripple [1]	≤2 dB
Stopband Rejection [2]	≥70 dBc
Stopband Rejection [3]	≥55 dBc
Stopband Rejection [4]	≥50 dBc
VSWR [1]	≤1.8:1

[1] 40500–42500 MHz
[2] DC–39500 MHz
[3] 39500–40000 MHz
[4] 44000–50000 MHz

Design Ratings Design rating

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

Mechanical Specifications

Parameter	Value
RF Impedance	50 Ω
Body Footprint	34 × 15 mm (Excluding connector protrusion)
RF Interface	2.92-F (One connector at each end of the housing)
Overall Height Including Tuning Elements	<9 mm
Surface Finish	Black
Quality Grade	Industrial
Mounting holes	4 × M2 through threaded holes (Hole-center spacing 27 × 12 mm)

Mechanical Specifications

Parameter	Value
RF Axis from the Lower Housing Edge in Side View	4 mm

Installation and handling

Clean the product surface without immersing the filter in cleaning liquid. Consult before ordering if the temperature of the complete unit will exceed 125 °C.

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.