Bandpass Filter · 1900–3900 MHz

Check signal coverage against the 1900–3900 MHz passband. Evaluate the separate 2000 MHz minimum bandwidth at −1 dB.

RF Performance

Parameter	Value
Passband	1900–3900 MHz
Passband Insertion Loss [1]	≤ 2.5 dB
Passband Ripple [1]	≤ 1.5 dB
Bandwidth at −1 dB	≥ 2000 MHz
Out-of-Band Rejection · DC–1400 MHz	≥ 50 dBc
Out-of-Band Rejection · 4600–6000 MHz	≥ 50 dBc
VSWR [1]	≤ 1.80

[1] 1900–3900 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	Round microstrip pins, Ø0.38 mm
RF Impedance	50 Ω
Surface Finish	Silver plating
Housing dimensions	25 × 13 × 6 mm (Excludes RF pin protrusions)
Mounting holes	4 through holes, Ø2.2 mm (Hole-center spacing 20.5 × 8.5 mm · Countersink Ø4 mm × 90°)
RF pin-axis height above housing base	2 mm
Pin axis distance from housing side edge	6.5 mm
Housing corner radius	1 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. 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.