Bandpass Filter · 2150–2550 MHz

Use the 1 ns maximum delay variation to evaluate signal timing. Cutout mounting in a multilayer microwave PCB is prohibited at frequencies above 2000 MHz.

RF Performance

Parameter	Value
Passband	2150–2550 MHz
Passband Insertion Loss [1]	≤ 2.0 dB
Passband Ripple [1]	≤ 1.0 dB
Out-of-Band Rejection · DC–1600 MHz	≥ 60 dBc
Out-of-Band Rejection · 1600–1850 MHz	≥ 30 dBc
Out-of-Band Rejection · 2890–3000 MHz	≥ 30 dBc
Out-of-Band Rejection · 3000–5500 MHz	≥ 60 dBc
VSWR [1]	≤ 1.50
Time-delay variation	≤ 1 ns

[1] 2150–2550 MHz

Design Ratings

Guaranteed by design

Parameter	Value
Power Handling	2 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 × 5.5 mm (Excludes RF pin protrusions)
Mounting holes	4 × M2 through threaded holes (Hole-center spacing 20.5 × 8.5 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. Do not mount the filter in a cutout of a multilayer microwave PCB at frequencies above 2000 MHz. The pin axes are 2 mm from the nearer broad face and centered across the 13 mm body width. The two RF pins are on opposite end faces. The four mounting holes form a rectangular pattern at the housing corners.

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.