Bandpass Filter · 1900–2800 MHz

Check rejection individually at 1590, 1680, 3020 and 3110 MHz. Cutout mounting in a multilayer microwave PCB is prohibited at frequencies above 2000 MHz.

RF Performance

Parameter	Value
Passband	1900–2800 MHz
Passband Insertion Loss [1]	≤ 2.5 dB
Passband Ripple [1]	≤ 1.5 dB
Out-of-Band Rejection · DC–1450 MHz	≥ 60 dBc
Out-of-Band Rejection · 1590 MHz [2]	≥ 30 dBc
Out-of-Band Rejection · 1680 MHz [3]	≥ 10 dBc
Out-of-Band Rejection · 3020 MHz [4]	≥ 10 dBc
Out-of-Band Rejection · 3110 MHz [5]	≥ 30 dBc
Out-of-Band Rejection · 3250–5000 MHz	≥ 60 dBc
VSWR [1]	≤ 1.80
Time-delay variation	≤ 2.5 ns

[1] 1900–2800 MHz
[2] 1590 MHz
[3] 1680 MHz
[4] 3020 MHz
[5] 3110 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)

Mechanical Specifications

Parameter	Value
Mounting holes	4 × M2 through threaded holes (Hole-center spacing 20.5 × 8.5 mm)
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. Do not mount the filter in a cutout of a multilayer microwave PCB at frequencies above 2000 MHz.

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.