Two-Band Diplexer · 3000–5000 / 10000–13000 MHz

The shared COM connector serves P2 at 3000–5000 MHz and P3 at 10000–13000 MHz. Each branch rejects the other branch's passband by at least 60 dB. Use the housing as the chassis ground.

RF Performance

Parameter	Value
Passband P2	3000–5000 MHz
Passband P3	10000–13000 MHz
Passband Insertion Loss P2 [1]	≤ 1.5 dB
Passband Insertion Loss P3 [2]	≤ 1.5 dB
VSWR	≤ 1.5
Out-of-Band Rejection P2 [2]	≥ 60 dB
Out-of-Band Rejection P3 [1]	≥ 60 dB

[1] 3000–5000 MHz
[2] 10000–13000 MHz

Design Ratings

Parameter	Value
Power Handling	20 W (Guaranteed by design)
Operating Temperature	–40...+85 °C (Guaranteed by design)

Mechanical Specifications

Parameter	Value
RF Interface	N-K
RF Impedance	50 Ω
Connector material	Stainless steel
Surface Finish	White
Housing material	6061 aluminum
Common Port	COM
Branch Connector Markings	3-5G / 10-13G
Electrical Ground	Chassis Ground
Housing dimensions	50 × 56 × 24 mm
Branch Connector Center Spacing	24 mm
Mounting holes	4 × Ø3.2 mm (Hole-center spacing 45 × 51 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.