Band-stop Filter · 4400–5000 MHz

At least 50 dB rejection is specified between the DC–4350 MHz and 5050–6500 MHz passbands. Insertion loss in both passbands is limited to 2.5 dB. The 300 × 70 mm body has a 320 mm flange span and an overall height below 45 mm.

RF Performance

Parameter	Value
Stopband	4400–5000 MHz
Stopband Rejection	≥50 dB (4400–5000 MHz)
Lower Passband	DC–4350 MHz
Upper Passband	5050–6500 MHz
Passband Insertion Loss	≤2.5 dB (DC–4350 MHz; 5050–6500 MHz)
Passband VSWR	≤1.8 (DC–4350 MHz; 5050–6500 MHz)

Design Ratings

Parameter	Value
Power Handling	150 W (Guaranteed by design)

Typical series reference data

Several connector configurations share these typical data. Separate measurements for each configuration are unconfirmed.

Parameter	S12 (dB)	S11 VSWR
4200 MHz	-0.45	1.57
4350 MHz	-2.31	1.46
4360 MHz	-5.73	7.74
4370 MHz	-14.41	16.77
4380 MHz	-30.77	29.54
4400 MHz	-74.36	37.66
4450 MHz	-54.62	44.24
4600 MHz	-66.74	34.28
4800 MHz	-55.12	40.51
5000 MHz	-77.03	47.51
5020 MHz	-29.78	27.31
5030 MHz	-15.37	18.78
5040 MHz	-5.36	7.45

Typical series reference data

Several connector configurations share these typical data. Separate measurements for each configuration are unconfirmed.

Parameter	S12 (dB)	S11 VSWR
5050 MHz	-2.24	1.34
5200 MHz	-0.76	1.59

Mechanical and Interface Specifications

Parameter	Value
RF Connector	N-K
Connector Shell Material	304 stainless steel
RF Impedance	50 Ω
Surface Finish	Black baked paint
Body Length	300 mm
Body Width	70 mm
Overall Length Including Flanges	320 mm
Longitudinal Mounting Pitch	310 mm
Transverse Mounting Pitch	62 mm
Through-hole Diameter	4.5 mm
Connector Center Spacing	32 mm
Flange Thickness	3 mm
Connector Axis Distance Below Body Top	10.5 mm
Overall Height	<45 mm
Through-hole Count	4

Handling and Installation

Both RF connectors are on the same end of the housing. Clean the product surface without immersing the product in cleaning fluid. For conditions in which the overall product temperature exceeds 125 °C, consult LCRF before ordering.

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.