Band-stop Filter · 4400–5000 MHz

The specified passbands cover DC–4350 MHz and 5050–7000 MHz, with insertion loss limited to 3 dB. Stopband rejection is at least 50 dB. This configuration combines the extended upper passband with a 300 × 70 mm body.

RF Performance

Parameter	Value
Stopband	4400–5000 MHz
Stopband Rejection	≥50 dB (4400–5000 MHz)
Lower Passband	DC–4350 MHz
Upper Passband	5050–7000 MHz
Passband Insertion Loss	≤3 dB (DC–4350 MHz; 5050–7000 MHz)
Passband VSWR	≤1.8 (DC–4350 MHz; 5050–7000 MHz)

Design Ratings

Parameter	Value
Power Handling	100 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
5050 MHz	-2.24	1.34

Typical series reference data

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

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

Mechanical and Interface Specifications

Parameter	Value
RF Connector	SMA-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.