Band-stop Filter · 4900–5000 MHz

The passbands are DC–4850 MHz and 5050–8000 MHz, with insertion loss limited to 2.5 dB. The 10 W power capacity is guaranteed by design. A 192 × 53.5 mm body and 5 mm thick flanges fit within an overall height strictly below 36 mm.

RF Performance

Parameter	Value
Stopband	4900–5000 MHz
Stopband Rejection	≥50 dB (4900–5000 MHz)
Lower Passband	DC–4850 MHz
Upper Passband	5050–8000 MHz
Passband Insertion Loss	≤2.5 dB (DC–4850 MHz; 5050–8000 MHz)
Passband VSWR	≤1.8 (DC–4850 MHz; 5050–8000 MHz)

Design Ratings

Parameter	Value
Power Handling	10 W (Guaranteed by design)

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
4800 MHz	-0.64	1.33
4850 MHz	-1.86	1.3
4860 MHz	-4.37	4.38
4880 MHz	-20.31	8.33
4890 MHz	-44.28	14.42
4900 MHz	-72.20	20.47
4920 MHz	-54.54	29.94
4950 MHz	-75.37	43.32
4968 MHz	-68.63	33.17
5000 MHz	-66.43	39.94
5020 MHz	-22.41	14.72
5030 MHz	-10.66	6.65
5040 MHz	-4.31	4.24
5050 MHz	-1.96	1.46

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
5100 MHz	-0.87	1.47

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	192 mm
Body Width	53.5 mm
Overall Length Including Flanges	212 mm
Longitudinal Mounting Pitch	202 mm
Transverse Mounting Pitch	43.5 mm
Connector Center Spacing	23.5 mm
Flange Thickness	5 mm
Connector Axis Distance Below Body Top	8 mm
Overall Height	<36 mm
Through-hole Count	4
Through-hole Diameter	4.5 mm

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.