Band-stop Filter · 4400–5000 MHz

At least 50 dB stopband rejection is paired with DC–4320 MHz and 5080–8000 MHz passbands at no more than 3 dB insertion loss. Power capacity is 10 W as a design guarantee. Allow for a 212 mm flange span and an overall height strictly below 36 mm.

RF Performance

Parameter	Value
Stopband	4400–5000 MHz
Stopband Rejection	≥50 dB (4400–5000 MHz)
Lower Passband	DC–4320 MHz
Upper Passband	5080–8000 MHz
Passband Insertion Loss	≤3 dB (DC–4320 MHz; 5080–8000 MHz)
Passband VSWR	≤1.8 (DC–4320 MHz; 5080–8000 MHz)

Design Ratings

Parameter	Value
Power Handling	10 W (Guaranteed by design)

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
4300 MHz	-0.47	1.67
4320 MHz	-2.79	1.38
4340 MHz	-7.61	8.86
4360 MHz	-23.76	15.33
4380 MHz	-54.17	24.78
4400 MHz	-74.79	44.35
4600 MHz	-80.91	45.36
4800 MHz	-64.40	44.7
4900 MHz	-70.79	47.39
5000 MHz	-75.87	43.95
5020 MHz	-53.72	27.76
5040 MHz	-24.78	15.31
5060 MHz	-7.74	7.74
5080 MHz	-2.85	1.41

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
5100 MHz	-0.93	1.68

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
Through-hole Diameter	4.5 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

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.