Band-stop Filter · 5150–5250 MHz

Passbands extend over DC–5135 MHz and 5265–7000 MHz with insertion loss ≤4 dB. The body measures 260 × 70 mm, with overall height <45 mm.

RF Performance

Parameter	Value
Stopband	5150–5250 MHz
Stopband Rejection	≥40 dB (5150–5250 MHz)
Lower Passband	DC–5135 MHz
Upper Passband	5265–7000 MHz
Passband Insertion Loss	≤4 dB (DC–5135 MHz; 5265–7000 MHz)
Passband VSWR	≤1.8 (DC–5135 MHz; 5265–7000 MHz)

Design Ratings

Parameter	Value
Power Handling	50 W (Guaranteed by design)

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
5000 MHz	-0.73	1.27
5050 MHz	-0.84	1.65
5135 MHz	-3.31	1.31
5140 MHz	-14.35	11.14
5145 MHz	-51.36	18.37
5150 MHz	-58.61	49.59
5168 MHz	-50.37	32.14
5182 MHz	-66.76	31.12
5200 MHz	-51.52	16.43
5250 MHz	-55.88	20.48
5255 MHz	-47.66	12.14
5260 MHz	-23.27	6.44
5265 MHz	-3.64	1.28
5300 MHz	-0.96	1.69

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
5400 MHz	-0.85	1.15

Mechanical and Interface Specifications

Parameter	Value
RF Connector	SMA-K
RF Impedance	50 Ω
Connector Shell Material	304 stainless steel
Surface Finish	Black baked paint
Body Length	260 mm
Body Width	70 mm
Overall Length Excluding Connectors	280 mm
Longitudinal Mounting Pitch	270 mm
Transverse Mounting Pitch	62 mm
RF Port Pitch	32 mm
Flange Thickness	3 mm
Connector Axis Distance Below Body Top	10.5 mm
Overall Height	<45 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.