Band-stop Filter · 4100–4200 MHz

At least 50 dB rejection separates the DC–4050 MHz and 4250–8000 MHz passbands. Insertion loss is limited to 2.5 dB in those bands, with a design-guaranteed capacity of 10 W. Overall height is strictly below 36 mm.

RF Performance

Parameter	Value
Stopband	4100–4200 MHz
Stopband Rejection	≥50 dB (4100–4200 MHz)
Lower Passband	DC–4050 MHz
Upper Passband	4250–8000 MHz
Passband Insertion Loss	≤2.5 dB (DC–4050 MHz; 4250–8000 MHz)
Passband VSWR	≤1.8 (DC–4050 MHz; 4250–8000 MHz)

Design Ratings

Parameter	Value
Power Handling	10 W (Guaranteed by design)

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
4000 MHz	-0.76	1.58
4050 MHz	-2.38	1.37
4060 MHz	-5.41	8.67
4070 MHz	-12.75	13.66
4080 MHz	-28.73	24.78
4100 MHz	-75.60	38.74
4130 MHz	-77.45	43.56
4150 MHz	-72.99	32.55
4170 MHz	-59.29	32.38
4200 MHz	-78.98	41.93
4220 MHz	-28.13	26.64
4230 MHz	-11.76	15.78
4240 MHz	-5.65	7.31
4250 MHz	-2.4	1.36

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
4300 MHz	-0.89	1.62

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.