Band-stop Filter · 4100–4200 MHz

Rejection is at least 70 dB across the stopband. The two passbands extend from DC–4070 MHz and 4230–7000 MHz; the power capacity is 50 W as a design guarantee.

RF Performance

Parameter	Value
Stopband	4100–4200 MHz
Stopband Rejection	≥70 dB (4100–4200 MHz)
Lower Passband	DC–4070 MHz
Upper Passband	4230–7000 MHz
Passband Insertion Loss	≤2 dB (DC–4070 MHz; 4230–7000 MHz)
Passband VSWR	≤1.8 (DC–4070 MHz; 4230–7000 MHz)

Design Ratings

Parameter	Value
Power Handling	50 W (Guaranteed by design)

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
4000 MHz	-0.62	1.49
4060 MHz	-0.84	1.51
4070 MHz	-1.78	1.46
4080 MHz	-10.14	12.44
4090 MHz	-36.88	18.76
4100 MHz	-96.20	36.76
4110 MHz	-78.62	30.85
4150 MHz	-76.62	41
4190 MHz	-75.59	41.39
4200 MHz	-92.85	31.16
4210 MHz	-36.55	24.74
4220 MHz	-10.15	14.18
4230 MHz	-1.86	1.43
4240 MHz	-0.95	1.38

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
4300 MHz	-0.7	1.29

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.