Band-stop Filter · 4700–5000 MHz

The passbands are DC–4620 MHz and 5080–8000 MHz with a 3 dB maximum loss. Power capacity is design-guaranteed at 10 W, and overall height is strictly below 36 mm.

RF Performance

Parameter	Value
Stopband	4700–5000 MHz
Stopband Rejection	≥50 dB (4700–5000 MHz)
Lower Passband	DC–4620 MHz
Upper Passband	5080–8000 MHz
Passband Insertion Loss	≤3 dB (DC–4620 MHz; 5080–8000 MHz)
Passband VSWR	≤1.8 (DC–4620 MHz; 5080–8000 MHz)

Design Ratings

Parameter	Value
Power Handling	10 W (Guaranteed by design)

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
4600 MHz	-0.8	1.52
4620 MHz	-2.67	1.41
4640 MHz	-9.46	10.33
4660 MHz	-23.27	16.58
4680 MHz	-43.51	26.56
4700 MHz	-79.33	39.22
4720 MHz	-56.84	36.42
4800 MHz	-56.91	32.52
4940 MHz	-72.91	42.9
5000 MHz	-62.80	32.6
5020 MHz	-41.78	28.76
5040 MHz	-21.74	14.56
5060 MHz	-10.58	8.48
5080 MHz	-2.78	1.51

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
5100 MHz	-0.93	1.37

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.