Band-stop Filter · 4800–5000 MHz

It passes DC–4780 MHz and 5020–6500 MHz at maximum 3 dB insertion loss. A 50 W design rating and 300 × 70 mm flanged body define its electrical and mounting configuration.

RF Performance

Parameter	Value
Stopband	4800–5000 MHz
Stopband Rejection	≥70 dB (4800–5000 MHz)
Lower Passband	DC–4780 MHz
Upper Passband	5020–6500 MHz
Passband Insertion Loss	≤3 dB (DC–4780 MHz; 5020–6500 MHz)
Passband VSWR	≤1.8 (DC–4780 MHz; 5020–6500 MHz)

Design Ratings

Parameter	Value
Power Handling	50 W (Guaranteed by design)

Typical series reference data

Several product configurations share these typical data. Separate measurements for each configuration are unconfirmed.

Parameter	S12 (dB)	S11 VSWR
4700 MHz	-0.48	1.53
4780 MHz	-2.78	1.36
4785 MHz	-9.31	7.86
4790 MHz	-27.74	12.86
4795 MHz	-54.31	22.41
4800 MHz	-84.36	46.35
4880 MHz	-95.32	47.97
4920 MHz	-79.79	41.03
4960 MHz	-82.11	39.14
5000 MHz	-78.25	32.83
5005 MHz	-54.34	20.14
5010 MHz	-26.38	11.46
5015 MHz	-9.38	6.46
5020 MHz	-2.86	1.38

Typical series reference data

Several product configurations share these typical data. Separate measurements for each configuration are unconfirmed.

Parameter	S12 (dB)	S11 VSWR
5100 MHz	-0.69	1.26

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.