Band-stop Filter · 4890–5010 MHz

It provides DC–4880 MHz and 5020–7000 MHz passbands with insertion loss no greater than 3 dB. The 50 W rating is a design guarantee. Allow for a 300 × 70 mm body and an overall height below 45 mm.

RF Performance

Parameter	Value
Stopband	4890–5010 MHz
Stopband Rejection	≥50 dB (4890–5010 MHz)
Lower Passband	DC–4880 MHz
Upper Passband	5020–7000 MHz
Passband Insertion Loss	≤3 dB (DC–4880 MHz; 5020–7000 MHz)
Passband VSWR	≤1.8 (DC–4880 MHz; 5020–7000 MHz)

Design Ratings

Parameter	Value
Power Handling	50 W (Guaranteed by design)

Typical series reference data

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

Parameter	S12 (dB)	S11 VSWR
4800 MHz	-0.61	1.45
4870 MHz	-0.78	1.33
4875 MHz	-1.07	1.41
4880 MHz	-2.68	1.48
4885 MHz	-38.54	28.37
4890 MHz	-71.65	42.41
4920 MHz	-61.22	40.39
4950 MHz	-61.35	38.37
4980 MHz	-73.12	41.44
5010 MHz	-76.62	42.68
5015 MHz	-39.65	21.08
5020 MHz	-2.84	1.59
5025 MHz	-1.24	1.48

Typical series reference data

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

Parameter	S12 (dB)	S11 VSWR
5030 MHz	-0.85	1.36
5100 MHz	-0.78	1.45

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
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
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.