Band-stop Filter · 4840–4940 MHz

The SMA-K unit passes DC–4790 MHz and 4990–8000 MHz with maximum insertion loss of 2.5 dB. Its 192 × 53.5 mm body has an overall height below 36 mm.

RF Performance

Parameter	Value
Stopband	4840–4940 MHz
Stopband Rejection	≥50 dB (4840–4940 MHz)
Lower Passband	DC–4790 MHz
Upper Passband	4990–8000 MHz
Passband Insertion Loss	≤2.5 dB (DC–4790 MHz; 4990–8000 MHz)
Passband VSWR	≤1.8 (DC–4790 MHz; 4990–8000 MHz)

Design Ratings

Parameter	Value
Power Handling	10 W (Guaranteed by design)

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
4700 MHz	-0.48	1.38
4790 MHz	-2.33	1.31
4810 MHz	-12.35	7.78
4820 MHz	-25.74	9.65
4830 MHz	-42.38	18.68
4840 MHz	-78.33	34.51
4850 MHz	-61.12	35.23
4880 MHz	-75.14	45.51
4910 MHz	-75.22	46.97
4940 MHz	-75.29	38.08
4960 MHz	-27.64	16.34
4970 MHz	-13.85	9.47
4980 MHz	-6.78	4.78
4990 MHz	-2.24	1.36

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
5100 MHz	-0.72	1.4

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
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
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.