Band-stop Filter · 4840–4940 MHz

DC–4810 MHz and 4970–7000 MHz are the two passbands, each with a 2 dB maximum insertion loss. The 50 W design-guaranteed unit has a 300 × 70 mm body and a 320 mm flanged length excluding connectors.

RF Performance

Parameter	Value
Stopband	4840–4940 MHz
Stopband Rejection	≥70 dB (4840–4940 MHz)
Lower Passband	DC–4810 MHz
Upper Passband	4970–7000 MHz
Passband Insertion Loss	≤2 dB (DC–4810 MHz; 4970–7000 MHz)
Passband VSWR	≤1.8 (DC–4810 MHz; 4970–7000 MHz)

Design Ratings

Parameter	Value
Power Handling	50 W (Guaranteed by design)

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
4700 MHz	-0.48	1.41
4800 MHz	-0.53	1.26
4810 MHz	-1.86	1.39
4820 MHz	-17.38	14.78
4830 MHz	-55.85	27.36
4840 MHz	-98.72	36.58
4870 MHz	-98.87	33.2
4900 MHz	-87.03	44.6
4930 MHz	-91.27	40.81
4940 MHz	-99.54	33.95
4950 MHz	-57.64	26.68
4960 MHz	-18.73	15.77
4970 MHz	-1.79	1.36
5000 MHz	-0.67	1.45

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
5100 MHz	-0.72	1.51

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.