Band-stop Filter · 5150–5875 MHz

The two passbands are DC–5100 MHz and 5925–7000 MHz, each with insertion loss no greater than 3 dB. The flanges are 3 mm thick.

RF Performance

Parameter	Value
Stopband	5150–5875 MHz
Stopband Rejection	≥50 dB (5150–5875 MHz)
Lower Passband	DC–5100 MHz
Upper Passband	5925–7000 MHz
Passband Insertion Loss	≤3 dB (DC–5100 MHz; 5925–7000 MHz)
Passband VSWR	≤1.8 (DC–5100 MHz; 5925–7000 MHz)

Design Ratings

Parameter	Value
Power Handling	50 W (Guaranteed by design)

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
4800 MHz	-0.54	1.13
4900 MHz	-0.54	1.57
5050 MHz	-0.74	1.42
5100 MHz	-2.29	1.28
5120 MHz	-14.00	11.37
5140 MHz	-40.05	25.76
5150 MHz	-62.91	22.49
5400 MHz	-61.06	28.96
5550 MHz	-68.93	41.81
5885 MHz	-40.97	16.72
5900 MHz	-12.91	11.34
5905 MHz	-7.07	4.28
5915 MHz	-2.33	1.34
5950 MHz	-0.74	1.42

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
6300 MHz	-0.81	1.28

Mechanical and Interface Specifications

Parameter	Value
RF Connector	SMA-K
RF Impedance	50 Ω
Connector Shell Material	304 stainless steel
Surface Finish	Black baked paint
Body Length	300 mm
Body Width	70 mm
Overall Length Excluding Connectors	320 mm
Longitudinal Mounting Pitch	310 mm
Transverse Mounting Pitch	62 mm
RF Port Pitch	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.