Band-stop Filter · 4800–5000 MHz

DC–4775 MHz and 5025–7000 MHz passbands have maximum 3.5 dB loss. Third-order intermodulation is –130 dBc at 2 × 43 dBm with design assurance; the condition remains integral to that rating.

RF Performance

Parameter	Value
Stopband	4800–5000 MHz
Stopband Rejection	≥70 dB (4800–5000 MHz)
Lower Passband	DC–4775 MHz
Upper Passband	5025–7000 MHz
Passband Insertion Loss	≤3.5 dB (DC–4775 MHz; 5025–7000 MHz)
Passband VSWR	≤1.8 (DC–4775 MHz; 5025–7000 MHz)

Design Ratings

Parameter	Value
Power Handling	150 W (Guaranteed by design)
Third-order Intermodulation	–130 dBc (2 × 43 dBm; Guaranteed by design)

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
4700 MHz	-0.5	1.33
4775 MHz	-3.14	1.56
4780 MHz	-5.88	6.47
4785 MHz	-19.37	15.48
4790 MHz	-42.48	28.76
4800 MHz	-95.36	42.23
4840 MHz	-93.56	42.8
4900 MHz	-82.43	36.5
4960 MHz	-93.59	34.62
5000 MHz	-75.73	44.77
5005 MHz	-62.41	29.85
5010 MHz	-43.18	17.74
5020 MHz	-10.71	8.86

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
5025 MHz	-3.31	1.61
5050 MHz	-0.78	1.43

Mechanical and Interface Specifications

Parameter	Value
RF Connector	N-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.