Band-stop Filter · 4650–4770 MHz

The two passbands are DC–4640 MHz and 4780–7000 MHz, both with a 3 dB maximum insertion loss. Power capacity is design-guaranteed at 150 W.

RF Performance

Parameter	Value
Stopband	4650–4770 MHz
Stopband Rejection	≥50 dB (4650–4770 MHz)
Lower Passband	DC–4640 MHz
Upper Passband	4780–7000 MHz
Passband Insertion Loss	≤3 dB (DC–4640 MHz; 4780–7000 MHz)
Passband VSWR	≤1.8 (DC–4640 MHz; 4780–7000 MHz)

Design Ratings

Parameter	Value
Power Handling	150 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
4500 MHz	-0.49	1.29
4600 MHz	-0.66	1.44
4630 MHz	-0.78	1.36
4640 MHz	-2.83	1.47
4645 MHz	-46.3	29.79
4650 MHz	-70.69	38.74
4680 MHz	-66.77	34.51
4710 MHz	-69.08	33.77
4740 MHz	-55.79	40.08
4770 MHz	-76.94	44.23
4775 MHz	-43.86	27.76
4780 MHz	-2.81	1.45
4790 MHz	-0.9	1.36
4800 MHz	-0.82	1.27

Typical series reference data

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

Parameter	S12 (dB)	S11 VSWR
4900 MHz	-0.69	1.48

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.