Band-stop Filter · 4650–4750 MHz

The DC–4640 MHz and 4760–7000 MHz passbands are specified at no more than 3 dB insertion loss, with at least 50 dB rejection in the stopband. Its 300 × 70 mm body has an overall height strictly below 45 mm for mechanical clearance planning.

RF Performance

Parameter	Value
Stopband	4650–4750 MHz
Stopband Rejection	≥50 dB (4650–4750 MHz)
Lower Passband	DC–4640 MHz
Upper Passband	4760–7000 MHz
Passband Insertion Loss	≤3 dB (DC–4640 MHz; 4760–7000 MHz)
Passband VSWR	≤1.8 (DC–4640 MHz; 4760–7000 MHz)

Design Ratings

Parameter	Value
Power Handling	50 W (Guaranteed by design)

Typical series reference data

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

Parameter	S12 (dB)	S11 VSWR
4600 MHz	-0.55	1.64
4630 MHz	-0.76	1.56
4635 MHz	-1.05	1.43
4640 MHz	-2.86	1.34
4645 MHz	-44.77	19.76
4650 MHz	-73.14	45.77
4670 MHz	-69.94	39.06
4700 MHz	-61.95	35.67
4730 MHz	-63.96	45.23
4750 MHz	-73.63	40.26
4755 MHz	-37.38	16.47
4760 MHz	-2.84	1.58
4765 MHz	-1.13	1.34

Typical series reference data

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

Parameter	S12 (dB)	S11 VSWR
4770 MHz	-0.85	1.41
4800 MHz	-0.72	1.5

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
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.