Band-stop Filter · 4650–4750 MHz

The DC–4600 MHz and 4800–8000 MHz passbands have a maximum loss of 2.5 dB. Its design-guaranteed power capacity is 50 W, with a strict overall height below 36 mm.

RF Performance

Parameter	Value
Stopband	4650–4750 MHz
Stopband Rejection	≥50 dB (4650–4750 MHz)
Lower Passband	DC–4600 MHz
Upper Passband	4800–8000 MHz
Passband Insertion Loss	≤2.5 dB (DC–4600 MHz; 4800–8000 MHz)
Passband VSWR	≤1.8 (DC–4600 MHz; 4800–8000 MHz)

Design Ratings

Parameter	Value
Power Handling	50 W (Guaranteed by design)

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
4500 MHz	-0.48	1.46
4600 MHz	-2.22	1.58
4610 MHz	-5.85	6.26
4620 MHz	-12.77	15.37
4630 MHz	-27.76	21.34
4650 MHz	-75.14	42.31
4670 MHz	-71.94	35.81
4700 MHz	-63.95	44.67
4730 MHz	-65.96	42.42
4750 MHz	-75.63	32.1
4770 MHz	-30.38	25.61
4780 MHz	-15.66	17.74
4790 MHz	-6.64	8.36
4800 MHz	-2.17	1.33

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
4900 MHz	-0.73	1.65

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	192 mm
Body Width	53.5 mm
Overall Length Including Flanges	212 mm
Longitudinal Mounting Pitch	202 mm
Transverse Mounting Pitch	43.5 mm
Through-hole Diameter	4.5 mm
Connector Center Spacing	23.5 mm
Flange Thickness	5 mm
Connector Axis Distance Below Body Top	8 mm
Overall Height	<36 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.