Highpass Filter · 2000–6000 MHz

Stopband Rejection ≥30 dBc (DC–1650 MHz). Body Footprint 30 × 12 × 10 mm.

RF Performance

Parameter	Value
Passband	2000–6000 MHz
Passband Insertion Loss [1]	≤1 dB
Stopband Rejection [2]	≥30 dBc
VSWR [1]	≤1.5:1

[1] 2000–6000 MHz
[2] DC–1650 MHz

Design Ratings Design rating

Parameter	Value
Operating Temperature	–40...+70 °C
Storage Temperature	–55...+85 °C
Power Handling	30 W

Typical measured response

Frequency	S11 VSWR	S22 VSWR	S12 loss (dB)	S12 rejection (dB)	S12 delay (ns)
0.03 GHz	3390.72	739.81	-63.23	-63.23	1.65
0.53 GHz	8837.99	32.66	-41.28	-41.28	0.45
1.03 GHz	152.94	20.76	-69.32	-69.32	-1.06
1.52 GHz	56.01	19.68	-43.90	-43.90	0.84
2.02 GHz	1.29	1.27	-0.78	-0.78	1.16
2.52 GHz	1.21	1.18	-0.63	-0.63	0.50
3.02 GHz	1.16	1.18	-0.59	-0.59	0.39
3.52 GHz	1.36	1.33	-0.64	-0.64	0.37
4.01 GHz	1.38	1.34	-0.68	-0.68	0.31
4.51 GHz	1.30	1.29	-0.61	-0.61	0.29
5.01 GHz	1.21	1.21	-0.57	-0.57	0.31
5.51 GHz	1.19	1.17	-0.70	-0.70	0.27
6.00 GHz	1.26	1.25	-0.78	-0.78	0.27

Typical measured response

Frequency	S11 VSWR	S22 VSWR	S12 loss (dB)	S12 rejection (dB)	S12 delay (ns)
6.50 GHz	1.34	1.36	-0.84	-0.84	0.30
7.00 GHz	1.36	1.47	-1.20	-1.20	0.33

Mechanical Specifications

Parameter	Value
RF Impedance	50 Ω
Body Footprint	30 × 12 × 10 mm (Excluding connector protrusion)
RF Interface	SMA-K (One connector at each end of the housing)
Surface Finish	Silver plated
Quality Grade	Industrial
Mounting holes	4 × M2 through threaded holes (Hole-center spacing 27 × 9 mm)

Installation and handling

Clean the product surface without immersing the filter in cleaning liquid. Consult before ordering if the temperature of the complete unit will exceed 125 °C.

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.