Highpass Filter · 30–300 MHz

Stopband Rejection · ≥40 dB (DC–27.12 MHz). Body Dimensions 40.4 × 12 × 10 mm.

RF Performance

Parameter	Value
Passband	30–300 MHz
Passband Insertion Loss [1]	≤2 dB
Stopband Rejection [2]	≥40 dB
VSWR [1]	≤1.5:1

[1] 30–300 MHz
[2] DC–27.12 MHz

Design Ratings Design rating

Parameter	Value
Power Handling	1 W
Operating Temperature	−40...+70 °C
Storage Temperature	−55...+85 °C

Typical measured response

Frequency	S11 VSWR	S22 VSWR	S12 loss (dB)	S12 rejection (dB)	S12 delay (ns)
20.00 MHz	129.08	133.72	-52.69	-52.69	24.49
22.00 MHz	84.23	82.84	-63.63	-63.63	-292.37
24.00 MHz	47.58	51.20	-50.02	-50.02	17.52
26.00 MHz	23.14	25.13	-52.43	-52.43	-75.58
29.00 MHz	1.06	1.14	-2.64	-2.64	278.32
31.00 MHz	1.12	1.16	-1.03	-1.03	98.09
33.00 MHz	1.20	1.17	-0.67	-0.67	57.83
35.00 MHz	1.08	1.05	-0.48	-0.48	40.73
37.00 MHz	1.07	1.07	-0.39	-0.39	31.00
39.00 MHz	1.14	1.16	-0.34	-0.34	24.49
41.00 MHz	1.19	1.20	-0.31	-0.31	20.28
44.00 MHz	1.20	1.21	-0.27	-0.27	15.80
46.00 MHz	1.19	1.19	-0.24	-0.24	13.81

Typical measured response

Frequency	S11 VSWR	S22 VSWR	S12 loss (dB)	S12 rejection (dB)	S12 delay (ns)
48.00 MHz	1.16	1.16	-0.21	-0.21	12.07
50.00 MHz	1.14	1.13	-0.19	-0.19	10.98

Mechanical Specifications

Parameter	Value
RF Impedance	50 Ω
RF Interface	SMA-F (One connector at each end of the housing)
Surface Finish	Silver plated
Quality Grade	Industrial
Body Dimensions	40.4 × 12 × 10 mm (Excluding connector protrusion)
Mounting holes	4 × M2 through threaded holes (Hole-center spacing 37.4 × 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.