Highpass Filter · 249–1000 MHz

Stopband Rejection ≥30 dB (230 MHz) / ≥50 dB (DC–215 MHz). Package Dimensions 40.4 × 12 × 10 mm.

RF Performance

Parameter	Value
Passband	249–1000 MHz
Passband Insertion Loss [1]	≤2.0 dB
Passband Ripple [1]	≤2.0 dB
VSWR [1]	≤1.50:1
Stopband Rejection [2]	≥30 dB
Stopband Rejection [3]	≥50 dB

[1] 249–1000 MHz
[2] 230 MHz
[3] DC–215 MHz

Power and Temperature Ratings

Parameter	Value
Operating Temperature	–40…+70 °C (Design rating)
Power Handling	5 W

Typical measured response

Frequency	S11 VSWR	S22 VSWR	S12 loss (dB)	S12 rejection (dB)	S12 delay (ns)
150.00 MHz	180.47	334.31	-60.52	-60.52	2.08
211.00 MHz	30.27	30.65	-75.58	-75.58	-21.90
271.00 MHz	1.39	1.34	-0.93	-0.93	10.50
332.00 MHz	1.21	1.20	-0.42	-0.42	3.61
393.00 MHz	1.16	1.13	-0.31	-0.31	2.12
454.00 MHz	1.11	1.07	-0.25	-0.25	1.50
514.00 MHz	1.09	1.06	-0.24	-0.24	1.16
575.00 MHz	1.07	1.06	-0.22	-0.22	0.94
636.00 MHz	1.05	1.06	-0.22	-0.22	0.81
696.00 MHz	1.04	1.05	-0.21	-0.21	0.71
757.00 MHz	1.05	1.03	-0.21	-0.21	0.64

Typical measured response

Frequency	S11 VSWR	S22 VSWR	S12 loss (dB)	S12 rejection (dB)	S12 delay (ns)
818.00 MHz	1.07	1.03	-0.22	-0.22	0.58
879.00 MHz	1.09	1.03	-0.22	-0.22	0.55
939.00 MHz	1.11	1.04	-0.23	-0.23	0.51
1000.00 MHz	1.13	1.06	-0.23	-0.23	0.49

Mechanical Specifications

Parameter	Value
RF Impedance	50 Ω
Package Dimensions	40.4 × 12 × 10 mm (Excluding connector protrusion)
Housing Material	Al 6061
RF Interface	SMA-K (One connector at each end of the housing)
Surface Finish	Silver plated
Mounting holes	4 × M2 through threaded holes (Hole-center spacing 37.4 × 9 mm)
Connector Axis Across Body Thickness	5 mm (Centered across the 10 mm body thickness)
Connector Axis from Housing Side Edge	6 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.