Lowpass Filter · DC–98 MHz

RF Interface SMA-K · 50 Ω · Package Dimensions 30 × 12 × 10 mm

RF Performance

Parameter	Value
Passband	DC–98 MHz
Passband Insertion Loss [1]	≤1 dB
Stopband Rejection [2]	≥45 dB
Stopband Rejection [3]	≥65 dB
VSWR [1]	≤1.5:1

[1] DC–98 MHz
[2] 146–189 MHz
[3] 189–400 MHz

Design Ratings

Parameter	Value
Operating Temperature	–40...+85 °C (Guaranteed by design)

Typical measured response

Frequency (MHz)	S11 VSWR	S22 VSWR	S12 loss (dB)	S12 delay (ns)
0.01	1.12	1.12	-0.21	6.73
11	1.11	1.11	-0.09	6.88
21	1.19	1.19	-0.13	7.01
32	1.2	1.19	-0.18	7.3
43	1.13	1.12	-0.21	7.9
54	1.07	1.05	-0.24	8.19
64	1.1	1.1	-0.3	9.22
75	1.1	1.14	-0.38	10.52
86	1.16	1.21	-0.53	12.88
96	1.21	1.22	-0.81	18.22
107	5.5	5.97	-4.83	23.14
118	28.1	34.57	-16.82	11.82
129	58.84	81.95	-30.23	6.01
139	81.12	125.07	-43.01	3.54

Typical measured response

Frequency (MHz)	S11 VSWR	S22 VSWR	S12 loss (dB)	S12 delay (ns)
150	107.3	157.51	-63.1	-29.9

Mechanical Specifications

Parameter	Value
Power Handling	2 W
Package Dimensions	30 × 12 × 10 mm (Excluding connector protrusion)
RF Impedance	50 Ω
RF Interface	SMA-K (One connector at each end of the housing)
Surface Finish	Silver Plated
Connector Material	Stainless steel
Housing Material	H62
Mounting holes	4 × M2 mounting threads (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.