Lowpass Filter · DC–50 MHz

Stopband Rejection · ≥40 dB (55–1000 MHz). Body Dimensions 40.4 × 12 × 10 mm.

RF Performance

Parameter	Value
Passband	DC–50 MHz
Passband Insertion Loss [1]	≤2.5 dB
Passband Ripple [1]	≤2.4 dB
Stopband Rejection [2]	≥40 dB
VSWR [1]	≤1.5:1

[1] DC–50 MHz

[2] 55–1000 MHz

Design Ratings Design rating

Parameter	Value
Power Handling	2 W
Operating Temperature	−40...+70 °C
Storage Temperature	−55...+85 °C

Typical measured response

Frequency (MHz)	S11 VSWR	S22 VSWR	S12 loss (dB)	S12 rejection (dB)	S12 delay (ns)
0.01	1.01	1.01	0.01	0.01	13.86
4.00	1.01	1.01	0.01	0.01	13.86
9.00	1.06	1.10	0.00	0.00	13.86
13.00	1.21	1.22	-0.12	-0.12	13.93
17.00	1.26	1.28	-0.23	-0.23	14.09
21.00	1.22	1.26	-0.26	-0.26	14.84
26.00	1.15	1.19	-0.29	-0.29	16.01
30.00	1.15	1.19	-0.29	-0.29	16.01
34.00	1.13	1.16	-0.35	-0.35	17.88
39.00	1.15	1.14	-0.44	-0.44	20.62
43.00	1.06	1.03	-0.59	-0.59	25.27
47.00	1.09	1.10	-0.93	-0.93	34.22

Typical measured response

Frequency (MHz)	S11 VSWR	S22 VSWR	S12 loss (dB)	S12 rejection (dB)	S12 delay (ns)
51.00	1.12	1.11	-2.12	-2.12	58.59
56.00	8.60	8.82	-52.68	-52.68	-88.58
60.00	8.60	8.82	-52.68	-52.68	-88.58

Mechanical Specifications

Parameter	Value
RF Impedance	50 Ω
RF Interface [1]	SMA-K
Surface Finish	Silver plated
Body Dimensions [2]	40.4 × 12 × 10 mm
Mounting holes [3]	4 × M2 mounting threads

[1] One connector at each end of the housing

[2] Excluding connector protrusion

[3] Hole-center spacing 37.4 × 9 mm

Installation and handling

Clean the product surface without immersing the filter in cleaning liquid.

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.