Bandpass Filter · 26500–32000 MHz

Stopband Rejection ≥38 dBc (33000–33500 MHz) / ≥45 dBc (24000–25500 MHz) / ≥60 dBc (24000–25000 MHz) / ≥75 dBc (DC–24000 MHz) / ≥53 dBc (33500–35000 MHz) / ≥70 dBc (35000–46000 MHz). Body Footprint 48 × 15 × 8 mm.

RF Performance

Parameter	Value
Passband	26500–32000 MHz
Passband Insertion Loss [1]	≤1.2 dB
Passband Ripple [1]	≤0.6 dB
Stopband Rejection [2]	≥38 dBc
Stopband Rejection [3]	≥45 dBc
Stopband Rejection [4]	≥60 dBc
Stopband Rejection [5]	≥75 dBc
Stopband Rejection [6]	≥53 dBc
Stopband Rejection [7]	≥70 dBc
VSWR [1]	≤1.5:1
Group Delay Variation [1]	≤1.2 ns
Absolute Group Delay [1]	≤1.7 ns

[1] 26500–32000 MHz
[2] 33000–33500 MHz
[3] 24000–25500 MHz
[4] 24000–25000 MHz
[5] DC–24000 MHz
[6] 33500–35000 MHz
[7] 35000–46000 MHz

Design Ratings Design rating

Parameter	Value
Operating Temperature	−40…+70 °C
Storage Temperature	−55…+85 °C
Power Handling	5 W

Typical measured response

Frequency	S11 VSWR	S22 VSWR	S12 loss (dB)	S12 rejection (dB)	S12 delay (ns)
25.00 GHz	64.93	82.05	-66.02	-66.02	0.11
25.71 GHz	44.34	42.66	-41.89	-41.89	0.26
26.43 GHz	1.29	1.34	-0.98	-0.98	1.52
27.14 GHz	1.11	1.12	-0.53	-0.53	0.76
27.86 GHz	1.03	1.11	-0.49	-0.49	0.62
28.57 GHz	1.15	1.07	-0.48	-0.48	0.57
29.29 GHz	1.10	1.05	-0.47	-0.47	0.55
30.00 GHz	1.13	1.13	-0.54	-0.54	0.55
30.71 GHz	1.20	1.20	-0.57	-0.57	0.58
31.43 GHz	1.14	1.13	-0.65	-0.65	0.69
32.14 GHz	1.68	1.71	-1.05	-1.05	1.34
32.86 GHz	41.24	39.40	-34.94	-34.94	0.29
33.57 GHz	50.53	46.40	-56.53	-56.53	0.23
34.29 GHz	48.39	48.82	-77.72	-77.72	0.05
35.00 GHz	45.82	47.57	-79.92	-79.92	-2.76

Mechanical Specifications

Parameter	Value
RF Impedance	50 Ω
Body Footprint [1]	48 × 15 × 8 mm
RF Interface [2]	2.92-K
Surface Finish	Black
Mounting holes [3]	4 × M2 through threaded holes
RF connector axis offset in side view [4]	3 mm
Quality Grade	Industrial

[1] Excluding connector protrusion

[2] One connector at each end of the housing

[3] Hole-center spacing 41 × 12 mm

[4] From the lower housing edge in the side view (8 mm body thickness)

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.