Highpass Filter · 330–2500 MHz

Stopband Rejection · ≥40 dB (DC–240 MHz). Body Dimensions (10 ± 0.2) × (7.5 ± 0.2) × (4 ± 0.3) mm.

RF Performance

Parameter	Value
Passband	330–2500 MHz
Passband Insertion Loss [1]	≤2 dB
Stopband Rejection [2]	≥40 dB
VSWR [1]	≤1.8:1

[1] 330–2500 MHz
[2] DC–240 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 (MHz)	S11 VSWR	S22 VSWR	S12 loss (dB)	S12 rejection (dB)	S12 delay (ns)
1	217.68	100.83	-82.37	-82.37	1.59
44	28602.01	558.14	-49.97	-49.97	1.21
87	684.92	731.69	-49.3	-49.3	0.91
129	146.06	255.74	-65.83	-65.83	-12.01
172	88.42	109.48	-47.32	-47.32	0.97
215	44.6	53.74	-59.7	-59.7	-12.24
258	14.1	17.61	-32.53	-32.53	-5.69
301	1.16	1.32	-3.08	-3.08	9.51
343	1.2	1.14	-1.23	-1.23	3.81
386	1.17	1.14	-0.79	-0.79	2.37
429	1.23	1.23	-0.64	-0.64	1.68
472	1.21	1.22	-0.5	-0.5	1.31
514	1.16	1.16	-0.46	-0.46	1.08

Typical measured response

Frequency (MHz)	S11 VSWR	S22 VSWR	S12 loss (dB)	S12 rejection (dB)	S12 delay (ns)
557	1.1	1.1	-0.39	-0.39	0.91
600	1.07	1.05	-0.31	-0.31	0.8

Mechanical Specifications

Parameter	Value
Mounting	Surface Mount
Quality Grade	Industrial
Body Dimensions	(10 ±0.2) × (7.5 ±0.2) × (4 ±0.3) mm
Package RF Terminal Inner-Edge Span	8.8 mm
PCB RF Land Inner-Edge Span	8.6 mm
Opposing Clearance Inner-Edge Span	7.2 mm
Clearance Opening Along the Short Edge	2.6 mm
Package RF Terminal Width	1.0 mm
PCB RF Land Width Along the Short Edge	1.2 mm
Package RF Terminal Notch Diameter	Ø0.6 mm

Mounting and PCB Layout

In the underside view, the two interchangeable RF terminals are centered on opposite short edges. The hatched underside is GND. Route a 50 Ω feed line to each centered PCB land and keep it clear of the ground copper. Provide ground vias around and beneath the footprint. The recommended PCB layout uses RO4350B with a dielectric thickness of 0.254 mm. A separate cavity is recommended. For effective grounding, keep the sides and the top and bottom of the package in close contact with the metal assembly housing where practical. Poor grounding degrades stopband rejection. The filter supports reflow soldering at 220 °C. Clean the 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.