Bandpass Filter · 1250–2050 MHz

Allow mating clearance for the opposed SMA-K connectors. The typical response table gives S12 loss and delay at each listed measurement frequency.

RF Performance

Parameter	Value
Passband	1250–2050 MHz
Passband Insertion Loss [1]	≤ 2.0 dB
Passband Ripple [1]	≤ 1.0 dB
Out-of-Band Rejection · DC–1000 MHz	≥ 55 dBc
Out-of-Band Rejection · 2460–6000 MHz	≥ 60 dBc
VSWR [1]	≤ 1.60

[1] 1250–2050 MHz

Design Ratings

Guaranteed by design

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

Typical measured response

Frequency	S11 VSWR	S22 VSWR	S12 loss (dB)	S12 delay (ns)
1000 MHz	8381.52	9277.63	-79.07	-59.65
1104 MHz	96.33	84.82	-37.76	1.85
1209 MHz	1.88	1.95	-2.07	6.74
1313 MHz	1.39	1.37	-0.73	3.1
1417 MHz	1.18	1.21	-0.51	2.4
1521 MHz	1.47	1.48	-0.57	2.07
1626 MHz	1.35	1.34	-0.55	1.97
1730 MHz	1.19	1.18	-0.52	1.99
1834 MHz	1.1	1.12	-0.57	2.16
1939 MHz	1.46	1.42	-0.89	2.43
2043 MHz	1.36	1.21	-1.2	3.37

Typical measured response

Frequency	S11 VSWR	S22 VSWR	S12 loss (dB)	S12 delay (ns)
2147 MHz	7.07	5.5	-8.23	4.89
2251 MHz	49.74	27.37	-33.84	1.34
2356 MHz	169.08	49.43	-58.28	0.44
2460 MHz	2919.08	72.87	-86.06	-27.04

Mechanical Specifications

Parameter	Value
RF Interface	SMA-K
RF Impedance	50 Ω
Surface Finish	Silver plating
Housing dimensions	40.4 × 12 × 10 mm (Excluding connector protrusion)
Mounting holes	4 × M2 mounting threads (Hole-center spacing 37.4 × 9 mm)
Connector material	Stainless steel
Housing material	H62 brass

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.