Bandpass Filter · 1500–1600 MHz · Surface mount

Plan surface-mount placement around the 20 × 9 mm body and the supported 190 °C reflow temperature. Use the typical response table to check performance at the listed measurement frequencies.

RF Performance

Parameter	Value
Passband	1500–1600 MHz
Passband Insertion Loss [1]	≤ 4.0 dB
Passband Ripple [1]	≤ 1.0 dB
Out-of-Band Rejection · DC–1400 MHz	≥ 40 dB
Out-of-Band Rejection · 1700–4000 MHz	≥ 40 dB
VSWR [1]	≤ 1.6

[1] 1500–1600 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)
1400 MHz	15.65	16.9	-46.13	19.03
1421 MHz	5.04	9.09	-18.94	13.42
1443 MHz	1.75	2.85	-6.01	14.18
1464 MHz	1.24	1.28	-3.44	10.33
1486 MHz	1.27	1.36	-3	7.89
1507 MHz	1.16	1.35	-2.81	7.03
1529 MHz	1.15	1.27	-2.8	6.64
1550 MHz	1.12	1.15	-2.84	6.66
1571 MHz	1.08	1.1	-3.06	6.95
1593 MHz	1.14	1.12	-3.53	7.64
1614 MHz	1.19	1.08	-4.37	8.97

Typical measured response

Frequency	S11 VSWR	S22 VSWR	S12 loss (dB)	S12 delay (ns)
1636 MHz	1.19	1.22	-6.6	11.73
1657 MHz	2.82	2.85	-14.05	11.85
1679 MHz	7.55	7.41	-29.74	4.64
1700 MHz	12.45	13.33	-47.17	-6.57

Mechanical Specifications

Parameter	Value
RF Interface	Surface mount
RF Impedance	50 Ω
Housing dimensions	20 × 9 × 5 mm (Dimensional tolerance ±0.2 mm)

Installation and handling

Clean the product surface without immersing the filter in cleaning liquid. Supports reflow soldering at 190 °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.