Band-stop Filter · 716–722 MHz

The rejection minimum is 50 dB; DC–686 MHz and 752–3000 MHz are the specified passbands, with a 2 dB insertion-loss maximum. Power capacity of 50 W and operation at −10…+50 °C are design guarantees. Mounting uses threaded attachment points in the body.

RF Performance

Parameter	Value
Stopband	716–722 MHz
Stopband Rejection	≥50 dB (716–722 MHz)
Lower Passband	DC–686 MHz
Upper Passband	752–3000 MHz
Passband Insertion Loss	≤2 dB (DC–686 MHz; 752–3000 MHz)
Passband VSWR	≤1.8 (DC–686 MHz; 752–3000 MHz)

Design Ratings

Parameter	Value
Power Handling	50 W (Guaranteed by design)
Operating Temperature	−10…+50 °C (Guaranteed by design)

Typical series reference data

Several connector configurations share these typical data. Separate measurements for each configuration are unconfirmed.

Parameter	S12 (dB)	S11 VSWR
650 MHz	-0.25	1.42
686 MHz	-0.77	1.33
696 MHz	-1.36	1.51
706 MHz	-6.72	5.38
716 MHz	-77.53	44.26
717 MHz	-61.56	35.91
718 MHz	-56.54	31.35
719 MHz	-74.15	44.36
720 MHz	-57.58	32.28
721 MHz	-63.89	43.6
722 MHz	-75.54	36.3
732 MHz	-6.96	5.51

Typical series reference data

Several connector configurations share these typical data. Separate measurements for each configuration are unconfirmed.

Parameter	S12 (dB)	S11 VSWR
742 MHz	-1.44	1.45
752 MHz	-0.79	1.29
775 MHz	-0.28	1.25

Mechanical and Interface Specifications

Parameter	Value
RF Connector	N-K
Connector Shell Material	304 stainless steel
RF Impedance	50 Ω
Surface Finish	Black baked paint
Body Length	201 mm
Body Width	30 mm
Body Height	18 mm
Longitudinal Mounting Pitch	195 mm
Transverse Mounting Pitch	24 mm
Thread Depth	6 mm
Connector Axis Height Above Body Bottom	9 mm
Connector Axis Distance from Body Side	15 mm
Mounting Threads	4 × M2.5

Handling and Installation

The two RF connectors are on opposite ends of the housing. Clean the product surface without immersing the product in cleaning fluid. For conditions in which the overall product temperature exceeds 125 °C, consult LCRF before ordering.

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.