Band-stop Filter · 717.5–722.5 MHz

Passbands are DC–687.5 MHz and 752.5–3000 MHz with a 2 dB maximum loss. The 50 W power capacity and –10…+50 °C operating range are design guarantees.

RF Performance

Parameter	Value
Stopband	717.5–722.5 MHz
Stopband Rejection	≥50 dB (717.5–722.5 MHz)
Lower Passband	DC–687.5 MHz
Upper Passband	752.5–3000 MHz
Passband Insertion Loss	≤2 dB (DC–687.5 MHz; 752.5–3000 MHz)
Passband VSWR	≤1.8 (DC–687.5 MHz; 752.5–3000 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
625 MHz	-0.24	1.06
687.5 MHz	-0.44	1.33
697.5 MHz	-1.46	1.41
707.5 MHz	-9.78	9.96
717.5 MHz	-65.08	41.81
718 MHz	-59.58	48.67
719 MHz	-50.54	41.24
720 MHz	-67.25	40.21
721 MHz	-51.97	36.39
722 MHz	-51.49	41.63
722.5 MHz	-64.45	40.96
732.5 MHz	-9.33	10.88
742.5 MHz	-1.32	1.37

Typical series reference data

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

Parameter	S12 (dB)	S11 VSWR
752.5 MHz	-0.46	1.25
800 MHz	-0.32	1.45

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
RF axis offset from the lower edge in side view	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.