Band-stop Filter · 728–746 MHz

DC–698 MHz and 776–3000 MHz are the passbands, 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	728–746 MHz
Stopband Rejection	≥50 dB (728–746 MHz)
Lower Passband	DC–698 MHz
Upper Passband	776–3000 MHz
Passband Insertion Loss	≤2 dB (DC–698 MHz; 776–3000 MHz)
Passband VSWR	≤1.8 (DC–698 MHz; 776–3000 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
675 MHz	-0.29	1.29
698 MHz	-1.07	1.27
708 MHz	-3.56	4.16
718 MHz	-12.78	14.43
728 MHz	-80.84	48.76
730 MHz	-59.51	45.06
735 MHz	-79.78	32.67
736 MHz	-72.65	35.56
740 MHz	-60.32	37.39
745 MHz	-61.65	47.35
746 MHz	-77.65	37.83
756 MHz	-12.48	13.35
766 MHz	-3.03	3.98

Typical series reference data

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

Parameter	S12 (dB)	S11 VSWR
776 MHz	-1.24	1.31
800 MHz	-0.33	1.19

Mechanical and Interface Specifications

Parameter	Value
RF Connector	N-K
Connector Shell Material	304 stainless steel
RF Impedance	50 Ω
Surface Finish	Gray 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.