Band-stop Filter · 746–756 MHz

The DC–716 MHz and 786–3000 MHz passbands are limited to 2 dB insertion loss. This gray-finished filter has a design-guaranteed power capacity of 50 W and an 18 mm body height.

RF Performance

Parameter	Value
Stopband	746–756 MHz
Stopband Rejection	≥50 dB (746–756 MHz)
Lower Passband	DC–716 MHz
Upper Passband	786–3000 MHz
Passband Insertion Loss	≤2 dB (DC–716 MHz; 786–3000 MHz)
Passband VSWR	≤1.8 (DC–716 MHz; 786–3000 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	-0.24	1.35
716 MHz	-1.85	1.41
726 MHz	-3.36	2.63
736 MHz	-11.74	12.47
746 MHz	-75.06	44.56
748 MHz	-73.66	45.77
750 MHz	-73.11	41.37
751 MHz	-72.04	39.86
752 MHz	-60.59	39.02
754 MHz	-61.89	47.07
756 MHz	-79.91	31.74
766 MHz	-12.63	13.75
776 MHz	-3.25	2.85

Typical series reference data

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

Parameter	S12 (dB)	S11 VSWR
786 MHz	-1.86	1.35
825 MHz	-0.35	1.25

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.