Band-stop Filter · 758–788 MHz

The passbands span DC–728 MHz and 818–3000 MHz, with insertion loss at most 2 dB. Design-guaranteed power capacity is 50 W; the 201 × 30 mm body has a black baked finish.

RF Performance

Parameter	Value
Stopband	758–788 MHz
Stopband Rejection	≥50 dB (758–788 MHz)
Lower Passband	DC–728 MHz
Upper Passband	818–3000 MHz
Passband Insertion Loss	≤2 dB (DC–728 MHz; 818–3000 MHz)
Passband VSWR	≤1.8 (DC–728 MHz; 818–3000 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
700 MHz	-0.27	1.54
728 MHz	-1.68	1.33
738 MHz	-3.36	3.38
748 MHz	-12.71	14.77
758 MHz	-73.79	38.57
760 MHz	-66.81	45.1
768 MHz	-66.48	43.02
770 MHz	-72.51	45.79
778 MHz	-66.39	33.39
780 MHz	-53.65	44.22
788 MHz	-61.75	41.51
798 MHz	-14.12	15.15
808 MHz	-3.65	4.02

Typical series reference data

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

Parameter	S12 (dB)	S11 VSWR
818 MHz	-1.72	1.38
850 MHz	-0.33	1.06

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.