Band-stop Filter · 815–830 MHz

The passbands DC–785 MHz and 860–3500 MHz have a 2 dB insertion-loss maximum. Design guarantees cover 50 W power handling and –10…+50 °C operation. Its 201 × 30 × 18 mm body has a gray baked-paint surface finish.

RF Performance

Parameter	Value
Stopband	815–830 MHz
Stopband Rejection	≥50 dB (815–830 MHz)
Lower Passband	DC–785 MHz
Upper Passband	860–3500 MHz
Passband Insertion Loss	≤2 dB (DC–785 MHz; 860–3500 MHz)
Passband VSWR	≤1.8 (DC–785 MHz; 860–3500 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
750 MHz	-0.25	1.44
785 MHz	-1.81	1.25
795 MHz	-3.19	3.55
805 MHz	-11.45	13.24
815 MHz	-75.94	43.15
818 MHz	-77.85	43.86
820 MHz	-74.25	42.97
823 MHz	-73.87	34.92
825 MHz	-74.15	34.27
828 MHz	-70.99	32.23
830 MHz	-74.13	47.69
840 MHz	-10.63	14.86
850 MHz	-3.24	3.36

Typical series reference data

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

Parameter	S12 (dB)	S11 VSWR
860 MHz	-1.77	1.33
900 MHz	-0.36	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
RF axis offset from the lower edge in side view	9 mm
Connector Axis Distance from Body Side	15 mm
Mounting Hole Count	4
Mounting Threads	M2.5
Thread Depth	6 mm

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.