Band-stop Filter · 820–825 MHz

It passes DC–790 MHz and 855–3500 MHz with insertion loss no greater than 2 dB. Power handling of 50 W and the –10…+50 °C operating range are guaranteed by design. Body dimensions are 201 × 30 × 18 mm.

RF Performance

Parameter	Value
Stopband	820–825 MHz
Stopband Rejection	≥50 dB (820–825 MHz)
Lower Passband	DC–790 MHz
Upper Passband	855–3500 MHz
Passband Insertion Loss	≤2 dB (DC–790 MHz; 855–3500 MHz)
Passband VSWR	≤1.8 (DC–790 MHz; 855–3500 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
775 MHz	-0.27	1.5
790 MHz	-1.36	1.31
800 MHz	-3.03	3.66
810 MHz	-8.94	10.61
820 MHz	-71.64	37.47
821 MHz	-57.98	31.69
822 MHz	-70.64	36.94
823 MHz	-57.65	47.14
824 MHz	-64.65	41.15
825 MHz	-71.64	39.39
835 MHz	-8.75	10.75
845 MHz	-3.35	4.15
855 MHz	-1.27	1.28

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.