Band-stop Filter · 824–835 MHz

The passbands extend over DC–794 MHz and 865–3500 MHz with a maximum insertion loss of 2 dB. Both 50 W power handling and operation at –10…+50 °C are guaranteed by design. Mounting uses four M2.5 threaded holes, each 6 mm deep.

RF Performance

Parameter	Value
Stopband	824–835 MHz
Stopband Rejection	≥50 dB (824–835 MHz)
Lower Passband	DC–794 MHz
Upper Passband	865–3500 MHz
Passband Insertion Loss	≤2 dB (DC–794 MHz; 865–3500 MHz)
Passband VSWR	≤1.8 (DC–794 MHz; 865–3500 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	-0.33	1.54
794 MHz	-1.69	1.27
804 MHz	-3.34	3.93
814 MHz	-11.76	13.87
824 MHz	-72.63	42.8
826 MHz	-59.27	32.95
828 MHz	-63.30	32.25
830 MHz	-67.87	32.81
832 MHz	-75.18	45.64
834 MHz	-78.37	37.31
835 MHz	-74.21	30.43
845 MHz	-12.84	12.79

Typical series reference data

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

Parameter	S12 (dB)	S11 VSWR
855 MHz	-3.55	4.34
865 MHz	-1.78	1.33
900 MHz	-0.39	1.51

Mechanical and Interface Specifications

Parameter	Value
RF Connector	SMA-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
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.