Band-stop Filter · 837–857 MHz

The DC–807 MHz and 887–3500 MHz passbands have insertion loss no greater than 2 dB. The design-guaranteed operating temperature range is –10…+50 °C.

RF Performance

Parameter	Value
Stopband	837–857 MHz
Stopband Rejection	≥50 dB (837–857 MHz)
Lower Passband	DC–807 MHz
Upper Passband	887–3500 MHz
Passband Insertion Loss	≤2 dB (DC–807 MHz; 887–3500 MHz)
Passband VSWR	≤1.8 (DC–807 MHz; 887–3500 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	1.49
807 MHz	-1.46	1.26
817 MHz	-2.94	1.85
827 MHz	-10.88	11.36
837 MHz	-73.16	39.69
841 MHz	-69.44	38.1
845 MHz	-75.40	40.15
849 MHz	-75.59	35.27
853 MHz	-71.31	37.43
855 MHz	-65.83	33.32
857 MHz	-79.31	39.41
867 MHz	-10.63	12.75
877 MHz	-2.85	1.96

Typical series reference data

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

Parameter	S12 (dB)	S11 VSWR
887 MHz	-1.57	1.31
925 MHz	-0.34	1.24

Mechanical and Interface Specifications

Parameter	Value
RF Connector	SMA-K
RF Impedance	50 Ω
Connector Shell Material	304 stainless steel
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
Threaded Mounting Hole Count	4
Mounting Thread Size	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.