Band-stop Filter · 844.5–849.5 MHz

The DC–814.5 MHz and 879.5–3500 MHz passbands have insertion loss no greater than 2 dB. Operation from –10…+50 °C is guaranteed by design; the surface finish is black baked paint.

RF Performance

Parameter	Value
Stopband	844.5–849.5 MHz
Stopband Rejection	≥50 dB (844.5–849.5 MHz)
Lower Passband	DC–814.5 MHz
Upper Passband	879.5–3500 MHz
Passband Insertion Loss	≤2 dB (DC–814.5 MHz; 879.5–3500 MHz)
Passband VSWR	≤1.8 (DC–814.5 MHz; 879.5–3500 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
800 MHz	-0.25	1.52
814.5 MHz	-0.67	1.25
824.5 MHz	-1.66	1.58
834.5 MHz	-10.49	12.65
844.5 MHz	-80.17	32.47
845.5 MHz	-65.86	44.49
846.5 MHz	-77.99	45.94
847.5 MHz	-67.40	37.46
848.5 MHz	-63.28	34.72
849.5 MHz	-80.74	37.27
859.5 MHz	-11.58	11.44
869.5 MHz	-1.86	1.63
879.5 MHz	-0.77	1.33

Typical series reference data

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

Parameter	S12 (dB)	S11 VSWR
900 MHz	-0.36	1.51

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.