Band-stop Filter · 860–875 MHz

DC–830 MHz and 905–3500 MHz pass with at most 2 dB insertion loss. The 201 × 30 × 18 mm body uses four M2.5 mounting holes, 6 mm deep.

RF Performance

Parameter	Value
Stopband	860–875 MHz
Stopband Rejection	≥50 dB (860–875 MHz)
Lower Passband	DC–830 MHz
Upper Passband	905–3500 MHz
Passband Insertion Loss	≤2 dB (DC–830 MHz; 905–3500 MHz)
Passband VSWR	≤1.8 (DC–830 MHz; 905–3500 MHz)

Design Ratings

Parameter	Value
Power Handling	50 W (Guaranteed by design)
Operating Temperature	–10...+50 °C (Guaranteed by design)

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
800 MHz	-0.28	1.52
830 MHz	-1.66	1.33
840 MHz	-3.41	3.76
850 MHz	-11.75	13.25
860 MHz	-88.29	41.09
862 MHz	-65.14	36.73
866 MHz	-65.49	38.64
868 MHz	-87.54	42.8
870 MHz	-86.55	33.22
872 MHz	-78.26	35.17
875 MHz	-88.52	37.56
885 MHz	-12.4	13.49
895 MHz	-3.36	4.03

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
905 MHz	-1.58	1.28
950 MHz	-0.34	1.15

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.