Band-stop Filter · 791–821 MHz

The passbands DC–761 MHz and 851–3300 MHz share a maximum insertion loss of 2 dB. Design guarantees cover 50 W power handling and –10…+50 °C operation. Four M2.5 mounting holes have a depth of 6 mm.

RF Performance

Parameter	Value
Stopband	791–821 MHz
Stopband Rejection	≥50 dB (791–821 MHz)
Lower Passband	DC–761 MHz
Upper Passband	851–3300 MHz
Passband Insertion Loss	≤2 dB (DC–761 MHz; 851–3300 MHz)
Passband VSWR	≤1.8 (DC–761 MHz; 851–3300 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
725 MHz	-0.28	1.42
761 MHz	-1.65	1.34
771 MHz	-2.96	3.25
781 MHz	-9.43	10.88
791 MHz	-67.99	38.22
795 MHz	-63.03	38.44
801 MHz	-56.44	37.6
805 MHz	-56.17	44.18
811 MHz	-68.74	40.13
815 MHz	-74.53	38.01
821 MHz	-78.71	33.48
831 MHz	-9.79	12.03
841 MHz	-3.06	3.31

Typical series reference data

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

Parameter	S12 (dB)	S11 VSWR
851 MHz	-1.71	1.28
875 MHz	-0.35	1.43

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.