Band-stop Filter · 768–778 MHz

Minimum 50 dB rejection separates DC–738 MHz and 808–3300 MHz passbands, with maximum 2 dB loss. The 50 W design includes a –10…+50 °C design-guaranteed operating range.

RF Performance

Parameter	Value
Stopband	768–778 MHz
Stopband Rejection	≥50 dB (768–778 MHz)
Lower Passband	DC–738 MHz
Upper Passband	808–3300 MHz
Passband Insertion Loss	≤2 dB (DC–738 MHz; 808–3300 MHz)
Passband VSWR	≤1.8 (DC–738 MHz; 808–3300 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
700 MHz	-0.28	1.3
738 MHz	-1.69	1.28
748 MHz	-3.25	1.67
758 MHz	-12.51	12.51
768 MHz	-73.96	34.42
770 MHz	-57.61	39.34
772 MHz	-78.58	32.37
774 MHz	-71.03	40.8
775 MHz	-72.19	36.92
776 MHz	-59.75	34.06
778 MHz	-71.41	49.9
788 MHz	-13.49	12.74
798 MHz	-3.41	1.85

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
808 MHz	-1.76	1.35
850 MHz	-0.32	1.21

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
Thread Depth	6 mm
RF axis offset from the lower edge in side view	9 mm
Connector Axis Distance from Body Side	15 mm
Mounting Thread Size	M2.5
Threaded Mounting Hole Count	4

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.