Band-stop Filter · 703–803 MHz

The DC–673 MHz and 833–3000 MHz passbands have a maximum insertion loss of 2.5 dB. The body measures 201 × 30 × 18 mm. Power handling of 50 W and operation over −10…+50 °C are specified as design guarantees.

RF Performance

Parameter	Value
Stopband	703–803 MHz
Stopband Rejection	≥50 dB (703–803 MHz)
Lower Passband	DC–673 MHz
Upper Passband	833–3000 MHz
Passband Insertion Loss	≤2.5 dB (DC–673 MHz; 833–3000 MHz)
Passband VSWR	≤1.8 (DC–673 MHz; 833–3000 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
625 MHz	-0.32	1.2
673 MHz	-2.32	1.39
683 MHz	-4.88	3.96
693 MHz	-12.51	15.46
703 MHz	-77.78	48.69
718 MHz	-75.42	30.95
738 MHz	-76.89	36.38
758 MHz	-76.61	30.78
778 MHz	-60.45	41.08
788 MHz	-66.08	45.41
803 MHz	-75.27	46.21
813 MHz	-14.85	15.35
823 MHz	-5.35	4.83

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
833 MHz	-2.44	1.38
875 MHz	-0.43	1.48

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
Connector Axis Height Above Body Bottom	9 mm
Connector Axis Distance from Body Side	15 mm
Mounting Threads	4 × M2.5

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.