Band-stop Filter · 703–733 MHz

The 2 dB insertion-loss ceiling applies to DC–693 MHz and 743–2500 MHz. A maximum passband VSWR of 1.6 accompanies these two transmission ranges.

The narrow 282 × 28 mm body is below 60 mm in height. Mounting flanges span 306 mm and are 4 mm thick; power handling of 50 W is guaranteed by design.

RF Performance

Parameter	Value
Stopband	703–733 MHz
Stopband Rejection	≥40 dB (703–733 MHz)
Lower Passband	DC–693 MHz
Upper Passband	743–2500 MHz
Passband Insertion Loss	≤2 dB (DC–693 MHz; 743–2500 MHz)
Passband VSWR	≤1.6 (DC–693 MHz; 743–2500 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
675 MHz	-0.32	1.51
693 MHz	-1.73	1.29
698 MHz	-14.53	12.85
703 MHz	-67.46	33.81
707 MHz	-66.45	47.23
711 MHz	-62.48	32.79
713 MHz	-53.52	36.32
717 MHz	-59.24	33.03
721 MHz	-50.72	49.32
725 MHz	-60.48	45.33
729 MHz	-65.44	32.25
733 MHz	-70.69	36.58

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
738 MHz	-14.38	11.78
743 MHz	-1.77	1.35
775 MHz	-0.39	1.53

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	282 mm
Body Width	28 mm
Overall Height	<60 mm
Length Across Mounting Flanges	306 mm
Flange Thickness	4 mm
Connector Axis Distance Below Body Top	10 mm
Connector Axis Distance from Body Side	10 mm
Longitudinal Mounting Pitch	296 mm
Transverse Mounting Pitch	20 mm
Through-hole Count	4
Through-hole Diameter	4.2 mm

Handling and Installation

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.