Band-stop Filter · 703–743 MHz

Its two passbands are DC–693 MHz and 753–2500 MHz. The 3 dB maximum insertion loss and 1.6 maximum VSWR apply to those ranges, alongside the 60 dB stopband requirement.

The 282 × 28 mm body has a height below 60 mm and 4 mm-thick mounting flanges. Connector axes are 10 mm below the body top and 10 mm from the indicated body side, providing explicit references for mating alignment.

RF Performance

Parameter	Value
Stopband	703–743 MHz
Stopband Rejection	≥60 dB (703–743 MHz)
Lower Passband	DC–693 MHz
Upper Passband	753–2500 MHz
Passband Insertion Loss	≤3 dB (DC–693 MHz; 753–2500 MHz)
Passband VSWR	≤1.6 (DC–693 MHz; 753–2500 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
650 MHz	-0.29	1.51
693 MHz	-2.77	1.33
698 MHz	-7.64	6.67
703 MHz	-84.64	34.21
707 MHz	-65.72	47.92
711 MHz	-67.46	44.71
715 MHz	-66.48	49.1
719 MHz	-68.74	44.66
723 MHz	-75.31	45.27
727 MHz	-84.68	35.23
735 MHz	-68.81	38.97
743 MHz	-81.18	31.49

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
748 MHz	-7.85	6.43
753 MHz	-2.78	1.35
800 MHz	-0.39	1.55

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.