Band-stop Filter · 420–425 MHz

The specified response combines at least 50 dB rejection with DC–410 MHz and 435–1000 MHz passbands. Their insertion loss is no more than 3 dB. A 210 × 92 mm body and slotted mounting flanges define the mechanical integration.

RF Performance

Parameter	Value
Stopband	420–425 MHz
Stopband Rejection	≥50 dB (420–425 MHz)
Lower Passband	DC–410 MHz
Upper Passband	435–1000 MHz
Passband Insertion Loss	≤3 dB (DC–410 MHz; 435–1000 MHz)
Passband VSWR	≤1.8 (DC–410 MHz; 435–1000 MHz)

Design Ratings

Parameter	Value
Power Handling	10 W (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
375 MHz	-0.26	1.51
410 MHz	-2.13	1.35
415 MHz	-8.25	10.77
420 MHz	-71.43	33.59
421 MHz	-72.37	35.31
421.5 MHz	-57.48	39.52
422 MHz	-68.73	30.21
422.5 MHz	-68.73	38.47
423 MHz	-57.83	31.18
423.5 MHz	-72.53	35.86
424 MHz	-62.03	33.57
425 MHz	-70.46	33.53
430 MHz	-8.13	11.41

Typical series reference data

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

Parameter	S12 (dB)	S11 VSWR
435 MHz	-2.37	1.33
475 MHz	-0.31	1.43

Mechanical and Interface Specifications

Parameter	Value
RF Connector	N-K
Connector Shell Material	304 stainless steel
RF Impedance	50 Ω
Surface Finish	Black baked paint
Body Length	210 mm
Body Width	92 mm
Overall Height	38 mm
Overall Length Including Flanges	230 mm
Longitudinal Mounting Pitch	220 mm
Transverse Mounting Pitch	45 mm
Mounting Slot Width	4.5 mm
Slot End-arc Center Distance	10 mm
Lower Slot Center Offset from Lower Edge	15 mm
Flange Thickness	3 mm
Connector Axis Distance Below Body Top	10 mm
Connector Axis Distance from Body Side	10 mm
Mounting Slot 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.