Band-stop Filter · 1830–1860 MHz

Insertion loss is at most 2.5 dB in both passbands, DC–1815 MHz and 1875–6000 MHz. Both connectors are on the same end of the housing.

RF Performance

Parameter	Value
Stopband	1830–1860 MHz
Stopband Rejection	≥60 dB (1830–1860 MHz)
Lower Passband	DC–1815 MHz
Upper Passband	1875–6000 MHz
Passband Insertion Loss	≤2.5 dB (DC–1815 MHz / 1875–6000 MHz)
Passband VSWR	≤1.8 (DC–1815 MHz / 1875–6000 MHz)

Design Ratings

Parameter	Value
Power Handling	150 W (Guaranteed by design)
Operating Temperature	–10...+50 °C (Guaranteed by design)

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
1750 MHz	-0.36	1.35
1815 MHz	-2.23	1.29
1820 MHz	-3.91	2.76
1825 MHz	-13.66	17.53
1830 MHz	-84.37	36.2
1836 MHz	-87.49	39.48
1840 MHz	-83.61	37.19
1846 MHz	-66.61	37.9
1850 MHz	-74.38	42.31
1856 MHz	-85.51	41.41
1860 MHz	-89.43	44.33
1865 MHz	-14.88	16.37
1870 MHz	-4.07	2.75

Typical Measurements

Parameter	S12 (dB)	S11 VSWR
1875 MHz	-2.24	1.35
1950 MHz	-0.44	1.08

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	300 mm
Body Width	72 mm
Housing height from flange underside	<55 mm
Length Between Outer Flange Edges	320 mm
Number of mounting slots	4
Mounting slot width	4.5 mm
Arc-centre spacing within one slot	10 mm
Slot-centre pitch, lengthwise	310 mm
Slot-centre pitch, crosswise	50 mm
Connector Center Spacing	34 mm
RF axis offset from the top edge in side view	10 mm

Handling and Installation

Both RF connectors are on the same end 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.