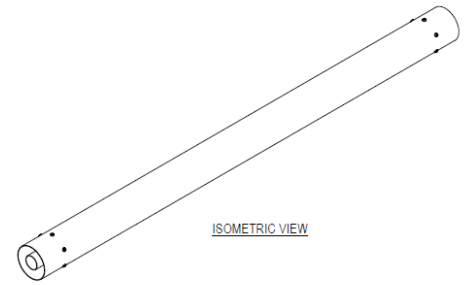




- The RFS LPF low pass VHF FM filter provides a minimum of 30dB rejection at 211.4MHz and 45dB at 317.1MHz.
- A custom designed structure, this filter is used to create a very sharp cut off rate and to maintain high rejection. The cut off frequency is 110MHz.
- High quality material is used leading to high power handling capability and very low insertion loss. The external appearance is aluminium metallic.
- With the low pass filter installed, a broadcast FM transmitter can operate safely in co-location with other wireless services.

FEATURES / BENEFITS

- 12kW power handling capability
- Low insertion loss
- Sharp cut off rate



LPF31B Low pass VHF FM filter

Technical features

GENERAL SPECIFICATIONS

Product Type		Band II VHF FM Low Pass Filter
Technical Application		Harmonic suppression

ELECTRICAL SPECIFICATIONS

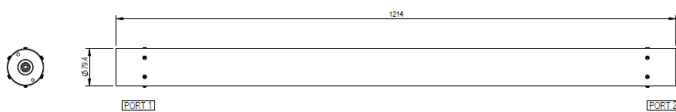
Impedance	Ω	50
Pass Band	MHz	75 - 108
Pass band Return Loss	dB	>25
Pass Band Insertion Loss	dB	≤0.1
Stop band rejection	dB	>30dB @ 211.4 MHz >45dB @317.1MHz ≤f ≤422.8MHz
Power Handling	kW	12kW ISDB-Tsb (PAR = 10dB) (10 x log (Ppk/Pav))

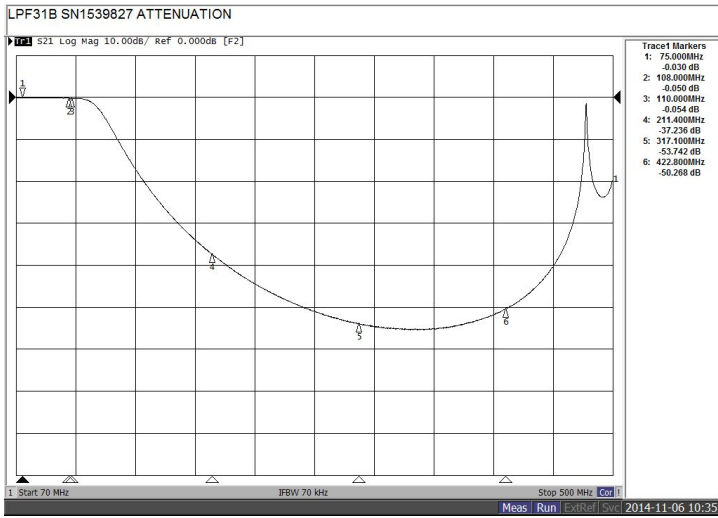
MECHANICAL SPECIFICATIONS

Connectors		3-1/8" unflanged	1-5/8" unflanged (with AD31-16 adaptor)	NAX39D unflanged (with AD31-NAX39D adaptor)
Dimensions		79.4mm diameter x 1214mm	41.3mm diameter x 1445mm	41.3mm diameter x 1445mm

TEMPERATURE SPECIFICATIONS

Temperature Range	°C (°F)	5 to 45 (41 to 113)
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Typical attenuation

External Document Links

Notes

- Maximum temperature rise 15°K
- Maximum operating temperature 60°C