

The FL0018 is a multi-element elliptic function band pass filter. It is a high performance filter which provides very low loss in band, whilst maintaining good rejection to medium wave and VHF broadcast transmissions. This ensures that the HF receiver is not overloaded by these high level transmissions.

Specification:

Electrical

Frequency Range	2 - 30 MHz
Pass band Loss 2 – 3MHz	<1.0dB.
Pass band Loss 3 – 20MHz	<0.50dB.
Pass band Loss 20 – 30MHz	<1.0dB.
Pass Band return loss 2 – 30MHz	< -14dB. (VSWR better than 1.5:1)
Rejection DC – 1.5MHz	< -50dB
Rejection 45 – 108MHz	< -50dB
Input Impedance	50Ω
Output Impedance	50Ω
Lightning Protection (Input)	2kV 1.2uS rise time, 50uS duration. (IEC61000-4-5 Level 3)

Limits

Mechanical

Case Size	125 x 85 x 45mm
Connector Input	N type
Connector Output	BNC
Material	Aluminium Main housing Internal screen polycarbonate cover.
Pole Mounting	Includes mounting kit for 30-150mm Pole.
Panel Mounting-Option FL018X8 Array	Up to 8 Units can be mounted on a 2U Panel

Environmental

Temperature:	-20 to +65 °C
Weatherproofing	Unit is waterproof to IP67.



Figure 1 - Similar Unit.

