



# Introduces 4G LTE800 Filters

## F4GC

In-line 4G filter with coax connections and plastic body.



## F4GF

In-line 4G filter with F connections and die cast metal body.



## F4GO

4G filter with weatherproof housing for outside use, ideal for masthead mounting.



F4GC

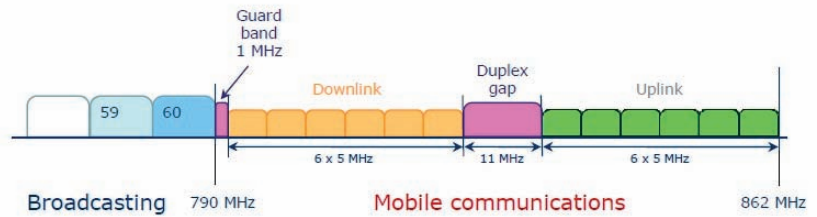
F4GF

F4GO

## Why filters are needed and why Labgear filters are ideal for the job

### Fact:

The UK Digital Switchover was planned to clear frequencies for future technologies between Ch63 - 68. But in 2008 the standard for 4th Generation Long Term Evolution (4G LTE800) devices was agreed which used Ch61 and 62. This has created a very tight space for these new technologies and a higher risk of interference.



### Fact:

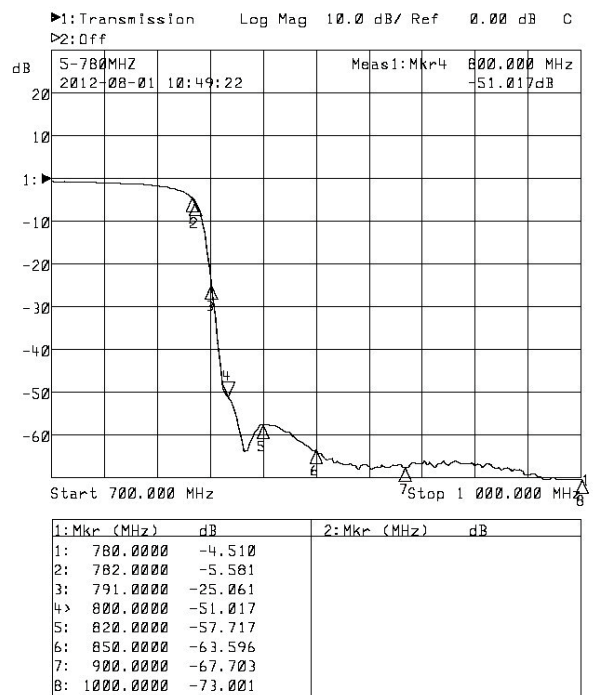
- Ofcom estimate that almost 10% of homes (2.4 Million) will be affected by interference to their DTT reception because they are close to a mobile mast carrying 4G and are either:
  - Receiving DTT on Ch59 or 60 and getting adjacent channel interference (approx 37%)
  - Or they have a UHF amplifier (or 5-wire multi-switch) in their TV system (approx 63%)

### Fact:

To prevent interference from 4G LTE800 transmitters:

- You need a filter with a sharp cross-over from the pass-band to the stop-band
- You need a filter with VERY high rejection across the whole 4G LTE800 frequency range

Labgear 4G filters have been specifically designed to meet the above requirements. They pass signals in the 462-782MHz range and reject signals across 791-862MHz range with an average rejection level of -55dB.



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