

### Indoor Channel Grouped Band-Pass Filters

- OBF2137** Band-pass filter for Ch 21~37 (470 - 606MHz)
- OBF3453** Band-pass filter for Ch 34~53 (574 - 743MHz)
- OBF4868** Band-pass filter for Ch 48~68 (682 - 862MHz)
- OBF2156** Band-pass filter for Ch 21~56 (470 – 758MHz)
- OBF2160LTE** Band-pass filter for Ch 21~60 (470 - 790MHz)

The RF spectrum is filling up fast. With GSM, TETRA, PMR, LTE (4G) and forthcoming “white spaces” transmissions likely to cause interference it is even more important to properly filter the input to a TV aerial installation and signal distribution system. Un-filtered installations are likely to suffer from the effects of interference causing unreliable reception and disturbed viewing. OPTIMA filters are designed to suppress unwanted frequencies from the aerial system.

To choose the right filter, establish the range of channels required (lowest and highest channel number) from your local TV transmitter and choose the nearest filter covering that channel group.

- High Out-of-Band rejection >-30dB typical (except OBF4868 & OBF2160 in LTE bands)
- Low In-Band insertion loss <2dB typical , 3dB at pass band edges.
- Reduces overlap interference from out-of-band transmitters
- High quality fully screened die-cast metal housing with F connectors
- Colour coded label for easy channel group identification
- Visible mounting holes & slots for easy fixing



Model	OBF2137	OBF3453	OBF4868	OBF2156	OBF2160
No of inputs	1				
No of outputs	1				
Frequency range - In-band	470-606MHz	574-734MHz	682-862MHz	470-758MHz	470-790MHz
Channel group / (Ch range)	A (Ch21-37)	B (Ch34-53)	C/D (Ch48-68)	(Ch21-56)	(Ch21-60)
Insertion loss - In-Band	<2dB	<2dB	<2dB	<2dB	<2dB
Out-of-band rejection (Lower)	>-30dB @ 400MHz	>-30dB @ 530MHz	>-30dB @ 600MHz		
Out-of-band rejection (Upper)	>-50dB @ 690MHz	>-30dB @ 800MHz	>-20dB @ 930MHz		
LTE band rejection	>-50dB @ 791MHz	>-25dB @ 791MHz	-	>-35dB @ 791MHz	>-3dB @ 791MHz
	>-55dB @ 821MHz	>-45dB @ 821MHz	-	>-50dB @ 821MHz	>-35dB @ 821MHz
Label Indication colour	Red	Yellow	Green	Orange	White
Connectors	F – female type				
DC Pass	DC Blocked			DC Pass	DC Pass
Dimensions / Weight	82 x 34 x 18mm / 60g				