

# Passive Components

## FILTER/COMBINERS

Equaliser/Filter and Combiner units are passive devices that have many applications in an MATV/CATV teledistribution system. Each unit incorporates filters and multiplexer circuits allowing manual adjustment of signal levels in various frequency bands. This allows the user to balance signal levels from one or more antennas in situations where an imbalance occurs.

### 131 Filter Equaliser

FC657086

Frequency RANGE, 40-860MHz  
Level Control range, -20dB  
Insertion loss: .5dB VHF, 1-2dB UHF  
Dimensions: 157 x 80 x 53mm



### 331 Combiner Equaliser

FC657060

Frequency range, 40-860MHz  
Level Control range, -20dB  
Insertion loss: .5dB VHF, 1-2dB UHF  
Dimensions: 130 x 80 x 57mm



### 141 Filter Equaliser

FC657094

Frequency range, 40-860MHz  
Level Control range, -20dB  
Insertion loss: .5dB VHF, 1-2dB UHF  
Dimensions: 172 x 80 x 53mm



### 441 Combiner Equaliser

FC657078

Frequency range, 40-860MHz  
Level Control range, -20dB  
Insertion loss: .5dB VHF, 1-2dB UHF  
Dimensions: 130 x 80 x 57mm



## Typical Applications

1. With a wideband distribution amplifier for example, the Hills Multilink 40. Use at the input to the wideband amplifier to permit balancing of signals in the various bands. The 131 and 141 may be used with a combined UHF/VH antenna, or the 331 and 441 where separate band width antennas are used.
2. Models 131 and 141 may be used prior to a line repeater amplifier to allow the equalisation of signals. This is necessary to compensate for attenuation of high frequencies due to long cable runs.
3. Models 331 and 441 may be used in reverse to split signals from a signal source, eg an antenna, to provide outputs to 3 or 4 single channel amplifiers. The level for each amplifier can then be individually adjusted to suit.