

# PostAmp 1-150

## Ultra Linear RF Amplifier 1 - 150MHz



The PostAmp 1-150 was especially developed as post amplifier for the DiRaGen 30. This amplifier increases the DiRaGen`s output level for about 30dB from -10dBm to +20dBm (100mW).

This delivers enough power for an optional power amplifier.

Amplifiers for DRM signals need an ultra linear design to avoid compression effects which will degrade the existing Signal-to-Noise Ratio (SNR).

This is guaranteed when the RMS output power level (measured thermally) is about 10-14dB (depending on Crest Factor) below the declared compression point (P-1dB) for peak envelope power (PEP).

The temperature compensated amplifier is housed in a robust oversized aluminium cabinet for passive cooling.

Due to the linear design the unit is best suited for all analog and digital modulated signals.

### Technical Data:

Frequency Range: 1- 150MHz / 0.5 -210MHz (-3dB)  
 Connectors: BNC sockets  
 Gain: 30dB +/- 1.5dB typ.  
 Max. Output Power:  
 +34dBm (5W) PEP / +20dBm (100mW) RMS eff. for DRM  
 IP3 @10MHz: +48dBm (55dBc)  
 Supply Voltage: 13 - 15V DC 750mA max.  
 2.1mm DC power socket (positive inner, minus outer)  
 Working Temperature: 0 - 35°C  
 Dimensions: 190 x 110 x 55mm  
 Weight: 0.5kg

