

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

