



VIDEO FEATURES

- **High power gain >20dB**
- **High efficiency >16%**
- **High linearity**
- **5W linear RMS output power**

DBS Linear 5W Power Amplifier

DBS' high efficiency COFDM 5W power amplifier covering 1.2GHz to 5GHz (available in banded options). This amplifier is compatible with DBS COFDM Transmitters.

This amplifier is designed to meet the stringent requirements of the DVB-T and DVB-T2 spectral mask and may be used for a variety of COFDM modulations including, QPSK, 16QAM, 64QAM, DBS proprietary UMVL modulation, CW and similar applications. The RF input and output ports provide excellent return loss for filter matching.

Housed in a heat sink, rugged enclosure with industry standard connectors this compact and highly efficient amplifier is ideal for long range wireless camera operations in the toughest of conditions.

Interfaces	
RF In/Out	N Type Male
Power In	4 Pin Lemo

Power	
DC In	10-18V
Current draw 5W	3.5A typ @10V full power 37dBm

Environment	
Temperature range	-10°C to 50°C
Enclosure	IP68

Features	
Format	Embedded, 1 pair analogue +48v Phantom
Encoder	MPEG-1 Layer 2, Linear PCM, AAC-LC
Quantity	2 pairs

RF Performance	
Operating Power (RMS) 5W	37dBm
Gain	>20dB (dependent on frequency variant)
Input/output return loss	10dB minimum, 12dB typical
Shoulder performance at Fc +/-(BW/2)	30dBc typical
Harmonic performance	67dBc typical
Efficiency	16% typical
Impedance	50Ω

Physical	
Dimension 5W	180mm (L incl. N-Types), 70mm (W), 74mm (H)
Weight 5W	980g

Product Code	
DBS-AMP5W-120170	5W COFDM Amplifier 1.20-1.70GHz, N-Type
DBS-AMP5W-165230	5W COFDM Amplifier 1.65-2.30GHz, N-Type
DBS-AMP5W-200255	5W COFDM Amplifier 2.00-2.55GHz, N-Type
DBS-AMP5W-440500	5W COFDM Amplifier 4.40-5.00GHz, N-Type



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