



VIDEO FEATURES

High power gain >20dB

High efficiency >16%

High linearity

5W linear RMS output power

2W linear RMS output power

DBS Linear 2W and 5W Power Amplifiers

DBS' high efficiency COFDM 2W and 5W power amplifiers covering 200MHz to 6GHz (available in banded options). Each amplifier is compatible with DBS COFDM Transmitters.

These amplifiers are 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 heat sink, rugged enclosures with industry standard connectors these compact and highly efficient amplifiers are 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 2W	2A typ @ 10V full power 33dBm
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) 2W	33dBm
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

Dimensions 2W	180mm (L incl. N-Types), 70mm (W), 30mm (H)
Weight 2W	550g
Dimension 5W	180mm (L incl. N-Types), 70mm (W), 74mm (H)
Weight 5W	980g

2W Frequency ranges available

320-470GHz
1.20-1.70GHz
1.65-2.40GHz
1.98-2.70GHz
4.40-5.00GHz

5W Frequency ranges available

1.20-1.70GHz
1.65-2.30GHz
1.98-2.55GHz
4.40-5.00GHz

