

Ultralinear COFDM Power Amplifier

The PA ultralinear power amplifier expands the possibilities of COFDM digital links on the market, since it can work with most transmitter types. Low intermodulation and high reliability make this amplifier especially interesting for broadcast and airborne applications.

This amplifier uses linearization technology to minimize distortion and provide superior signal quality for complex multi-carrier modulations while minimizing the DC power consumption.

FEATURES

- LDMOS FET technology
- High linearity (built-in linearizer)
- Good harmonic rejection
- Isolator for protection against high VSWR
- ON / OFF control (by Remote Connector)
- ALC (automatic level control)
- Remote serial interface
- Digital broadcast systems (DVB-T2, DVB-T and ISDB-T)

REMOTE CONTROL

- Direct Power measurement (Digital)
- Reverse Power measurement (Digital)
- Alarm
- Standby /ON Mode
- Remote control compatible with HDT-02 transmitter



Front view



Side view

Characteristics

PA Ultralinear - 10 Watt

Frequency range:	2,000 - 2,400 MHz 2,300 - 2,700 MHz
Input level:	+13 dBm to +20 dBm (ALC)
Max. output power:	10 W
Control Mode:	Manual: 3 output power levels Remote: By HDT Transmitter
Connectors:	Power supply: MS3112E12-3P Remote: D38999/24 2 x N-female (50 ohms)
Shoulders rejection:	40 dB @ 40 dBm
Supply voltage:	12 - 36 V DC
Protection capabilities:	Reverse voltage Reverse RF
Case:	Milled aluminium waterproof
Power consumption:	80 W
Operating temperature range:	-20 to 50 °C
Mechanical dimensions:	251 x 123.5 x 94.5 mm
Weight:	Approx. 2.5 kg

PA Ultralinear - 5 Watt

Frequency range:	3,300 - 3,600 MHz
Input level:	+13 dBm to +20 dBm (ALC)
Max. output power:	5 W
Control Mode:	Manual: 3 output power levels Remote: By HDT Transmitter
Connectors:	Power supply: MS3112E12-3P Remote: D38999/24 2 x N-female (50 ohms)
Shoulders rejection:	50 dB @ 37 dBm
Supply voltage:	12 - 36 V DC
Protection capabilities:	Reverse voltage Reverse RF
Case:	Milled aluminium waterproof
Power consumption:	80 W
Operating temperature range:	-20 to 50 °C
Mechanical dimensions:	251 x 123.5 x 94.5 mm
Weight:	Approx. 2.5 kg

HOW TO ORDER:

P/N	Frequency Range	Max. Output Power
PA-10-2024U	2,000 - 2,400 MHz	10 Watt.
PA-10-2327U	2,300 - 2,700 MHz	10 Watt.
PA-5-3336U	3,300 - 3,600 MHz	5 Watt.

