

SOLO7 1W Nano Power Amplifier

COFDM – Video, Audio Telemetry and IP Products



April 2016 Data Sheet



The SOLO7 Nano Transmitter power amplifier is an ultra-miniature COFDM digital video transmitter power amplifier from Domo Tactical Communications (DTC), designed specifically for covert video installations and body-worn applications.

With proven DTC COFDM technology at its core, the exceptionally small size and low power consumption (typically 3W at 0.5W TX Power) of the SOLO7 Nano Transmitter makes it the product of choice for covert video hides, or applications requiring long term battery power deployments, small unmanned aerial vehicles, and body-worn or body-wire use.

The SOLO7 Nano Transmitter power amplifier is supplied in a simple aluminium lightweight case and features an industry standard reliable SMA male and female RFIN/OUT connection. Control and power interfaces use a Lemo 00 connector.



SOL7NAMP1W Paired with a SOL7NTX

Specification:

IO

Power/Control	4-way Circular (4-pin 00 Lemo)
RF Input	SMA-M (100mW/50mW/10mW)
RF Output	SMA-F (1000mW/500mW/100mW)

Physical

Dimensions	L 44mm, W 31mm, H 18mm
Weight	65g

Power

DC Input	6.0V to 18V reverse polarity protected
Power Consumption	Typical:- 5W @ 1000mW RF power 4W @ 500mW RF power 3W @ 500mW RF power*

NB: Power consumption depends on RF power, temperature and frequency variant. *(Low linearity mode)

Environment

Temperature Range	-10°C to +50°C
Humidity	Less than 85% Non-Condensing

Product Codes:

SOL7NAMP1W-015017	SOL7 Nano Amp 1W 150-170MHz
SOL7NAMP1W-030042	SOL7 Nano Amp 1W 300-420MHz
SOL7NAMP1W-100150	SOL7 Nano Amp 1W 1.00-1.50GHz
SOL7NAMP1W-165240	SOL7 Nano Amp 1W 1.65-2.40GHz
SOL7NAMP1W-198270	SOL7 Nano Amp 1W 1.98-2.70GHz

Products are available to security users in licensed frequency bands. Encryption licences are subject to export control. These products are not approved for use by unlicensed users. Commercial products are available if used in appropriate licensed frequency bands.

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