



LW10-700199 20 Watt Tetra Booster Amplifier



The Linwave LW10-700199 is an ultra compact integrated transmit booster amplifier with automatic TX/RX switching, an integral receive LNA and automatic bypass mode upon power failure.

Designed to work with a minimum input power of 0.5W, the unit can be configured to work with TDMA signals and FM if required. The amplifier covers all the standard TETRA band utilised within the UK and Europe.

The module automatically switches between transmit and receive. A high dynamic range receive LNA is incorporated. This can be either switched in or out of circuit depending upon signal conditions and requirements.

Tough and rugged, the unit is equipped with a Goretex™ breather and designed for use in the most challenging of environments. Its small size and low power consumption makes it particularly suitable for manpack, ground mobile and marine applications, including ultra small vehicle fits such as jet skis and quad bikes where power is at a premium.

An industry standard footprint, interconnect and control interface ensure easy retrofit, thus simplifying the upgrading of existing systems and the implementation of new ones. The LW10-700199 is designed and manufactured in the UK, reducing any supply issues due to ITAR restrictions.

Specification

Parameter	Value	Notes
TX and RX Frequency	370 TO 470 MHz	
TX Input Power Range	0.5W (min) to 5W (absolute max., no damage)	
Continuous Transmit Time/ Duty Cycle	15 minutes/ 10% at max rated operating temperature	
Modulation Modes	TDMA, FM	
Transmit Power, P1dB	43dBm	
TX Harmonic Rejection	>-50 dBc	
RF Port Connector/ Impedance/ VSWR	TNC/ 50R/ <1.8:1	RX and TX
T/ R Switching Time	<50uSec	
Receive LNA Noise Figure	1.0dB	
Receive channel insertion loss	1.5 dB max	LNA out of circuit
Environmental sealing	To IP67	O ring sealed, Goretex breather fitted
Vibration and Shock	Suitable for Marine and Ground Mobile Applications	
Operational Altitude	15000 feet	
Temperature, Operating/ Storage	-20 to +50°C	Installation must allow for adequate convection cooling
Finish	Matt black anodised	
Size	3" x 2.5" x 7" (WxLxH)	7.62 x 6.35 x 17.78cm
DC Input Voltage/ Power	9 to 36 Volts, 120 watts max	
DC Connector	10 Pin Circular	Mating part supplied
Weight	2.5lbs	1.136kg

Linwave Technology reserves the right to change this specification without notice