





### **OEM MICROWAVE POWER AMPLIFIERS**

# LEanamp-5800m-10-m

OEM 5700-5850MHz 10W Amplifier

**LEANAMP-5800M-10-M** is a compact **OEM Amplifier** Module conceived for demanding applications requiring state-of-the-art technology, absolute signal purity, high energy efficiency and long-term reliability.

**LEANAMP-5800M-10-M** is a class-AB OEM Power Amplifier developed for easy integration into devices operating in the microwave range **from 5700MHz to 5850MHz** to produce an output power of 10W @1dBc with a 40dB gain and dual 28Vdc and 5Vdc power supply. The module is equipped with a simple analogue user interface for easy monitoring and control.

The Power Amplifier, based on GaN technology, is designed for CW and pulsed applications and includes an isolator at the output in order to protect the internal hardware from temporary high VSWR operating conditions. The OEM module shall be mounted on a heatsink for forced-air cooling by means of a suitable fan, please contact the factory in order to get information about the recommended heatsink and fan depending on the intended operating ambient temperature.

**LEANAMP-5800M-10-M** can be used for different applications in telecommunications or in laboratory environment for scientific experimentation, for measurement or calibration purposes. Top **accuracy** is guaranteed by latest-generation power devices, by real-time measurement of Temperature and Forward Power and long-term **reliability** is ensured by accurate components selection and careful thermal balance considerations from the beginning of the design phase.

# **QUICK OVERVIEW**

Ready for quick integration

Dual 28Vdc and 5Vdc power supply

High energy efficiency

Conceived for forced-air cooling

GaN technology

10W @1dBc

40dB gain

Integrated output isolator

Analogue user interface

Real-time measurement of Temperature and Forward Power

Ready for continuous and pulsed modes

Top accuracy and long-term reliability

## LEanamp-5800m-10-m

# OEM 5700-5850MHz 10W Amplifier

### **Technical Specifications**

Frequency Range
Output Power @1dBc

**Max Output Power Nominal Input Power** 

**Max Input Power** 

**Small-signal Gain** 

**Power Gain** 

**Output Power in OFF Mode** 

**Input Return Loss** 

**Output Return Loss** 

**Power Supply 1 Voltage Range** 

**Max Power Supply 1 Voltage** 

**Power Supply 2 Voltage Range** 

**Power Supply 1 Current** 

**Power Supply 2 Current** 

Efficiency (Vdc=28V, in=0dBm)

Input/Output Impedance/Connector

**Dimensions** 

**Control Connector** 

5700-5850MHz

>10W

>10W

0dBm

+5dBm

43dB ±1dB

39.0dB ±0.5dB

<-10dBm @0dBm input

>10dB

>15dB

12÷30Vdc (nominal 28Vdc)

32Vdc

5Vdc ±5%

1.25A @0dBm input

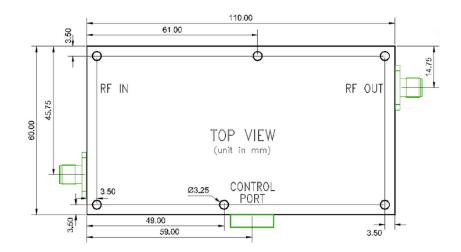
450mA @0dBm input

>25%

50Ω/SMA-f

110x60x17mm

HIROSE DF11-10DP-2DS (male10 pin)



#### **CONTROL PORT**

- GND GND
- TEMPERATURE
- CURRENT
- FWD POWER
- ON/OFF
- +5Vdc
- +28Vdc 10 +28Vdc

#### **READINGS & CONTROL**

FORWARD POWER 0-5V TEMPERATURE 10mV/°C +28V SUPPLY CURRENT 2.5V +0.5V/A

ON FLOATING - OFF GND



**LEANFA Srl** 

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