

## C-BAND POWER AMPLIFIER

### Areas of Application

Radar and communication systems

### Specification

Operating mode	CW or pulse
Cooling	conductive
Frequency range, GHz	5.5...8.5
Narrowband mode, any sub-band, MHz	±200
Output power, W	
narrowband mode	>30
wideband mode	20
Full power gain, dB	>17
Dimensions, mm	100 × 100 × 20
Weight, kg	0.25
Power consumption (max. CW mode), W	110
Supply voltage, V	+28 ± 1
Operation temperature range, °C	-40...+55



### Stage of Development.

### Suggestions for Commercialization

IRL8, TRL7

Manufacture, delivery, warranty service,  
and staff training, upon request

### Advantages

Small size and low weight; the amplifier can be configured either for narrowband or wideband mode; fully mismatched operation is admitted in the narrowband mode; the amplifier contains an internal bias generator and protection circuits enabling its safe operation, including reverse battery and overvoltage protection up to ±60 V

### IPR Protection

IPR1

### Contact Information

*Dmytro M. Vavriv*, Institute of Radio Astronomy of the NAS of Ukraine;  
+38 057 720 37 18, e-mail: vavriv@rian.kharkov.ua