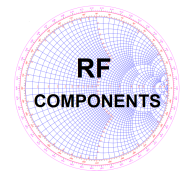


# ILA1061

768~788 MHz 32dBm LTE Power Amplifier,



RFCOMPONENTS.COM.AU

## Description

The Model ILA1061 is designed for LTE applications from 768 MHz to 788 MHz frequency band. This amplifier utilizes LDMOS power devices to provide excellent efficiency and linearity characteristics. Inpower's high quality design technology makes the amplifier extremely stable within overall environmental temperature range.

## Product Features

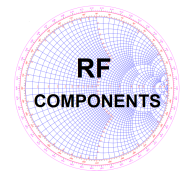
- Operating Frequency: 768 ~ 788 MHz
- Bandwidth: 20 MHz
- Pout: +32dBm
- Analog Pre-distortion Linearization
- Application: LTE700 Repeater, DAS

## Electrical Specifications

Parameters		Specifications	Remark
Operating Frequency		768 ~ 788 MHz	
Output Power (Linear)		+32dBm Min	
Output Power @ 1dB Compression Point		+43dBm Min	
Small Signal Gain		19dB Min, 20dB Typical, 21dB Max	
Small Signal Gain Flatness		1dBp-p Max	
ACPR	±20MHz	35dBc	Test ACPR 20MHZ BW Located at center, right edge and Left edge of band.
	±40MHz	35dBc	
Input Return Loss		-15dB Typ, -10dB Max	
Noise Figure		7 dB Typ 10 dB Max	
Operating Voltage		27V Min, 28V Typ, 30V Max	
Current Consumption @ Pout = 32dBm		1.0A Max	
Quiescent Current		600mA Max	
Current Consumption @ Shutdown		100mA Typ	

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## Mechanical Specifications

Parameter	Specifications	Remark
Dimensions (W x D x H)	80 * 80 * 20 mm	
Weight	0.5kg	
RF Connectors In/Out	SMA – Female	
Monitoring/DC Connectors	D-sub, 9 Pins, 4 – 40 screws	
Cooling	External Heat sink (not included)	

## Environmental Characteristics

Parameters	Specifications	Remark
Operating Case Temperature Range	-30°C to +85°C	
Storage Temperature	-40°C to +85°C	
Relative humidity w/o condensation	95%	

## I/O Interface (D-sub 9pin Male)

Pin No	Pin Description	Specifications	Remark
1	Forward Power Monitor	$V_{out}=2V\pm 0.05V@32dBm$ , Slope: 50mV/dB	RMS Detector
2	NC	Not Connected	
3	Temperature Monitor	$V_{out}=10mV/^{\circ}C\times Temp+500mV$	
4	NC	Not Connected	
5	Enable / Disable	Enable: TTL Low or Open Disable: TTL High = 3.3-5V	
6	VDD	+28V DC Input	
7	VDD	+28V DC Input	
8	GND	Ground	
9	GND	Ground	

