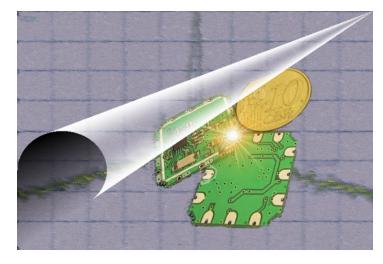


Your best partner for embedded RF design

BIT169PA30

RF Power Amplifier 1Watt @169MHz



Very low cost power amplifier module designed for band 169 MHz applications in a very small package (14,4x14,4 mm)

Highly Integrated RF Solutions

The BIT169PA30 modules is a very small complete and compact RF Power amplifier.

The product is available for RF applications in the 169 to 170 MHz unlicensed ISM(Industrial, Scientific and Medical) and SRD (Short Range Device) frequency bands.

BIT169PA30 is ideal solution for Wireless Metering and wireless metering infrastructure

Module can be SMT assembled.

Lead-free "green package.

With only 14,4 x 14,4 mm footprint the modules provide a real cost-effective wireless solution.

Matching Impedance is 50 ohm both in input, as in output

No additional components are needed.

BIT169PA30 is the ideal companion of BIT169RMH BIT's modules.

Order code are:

BIT169PA30 : up to 30dBm Power Amplifier 169 MHz



14.4 mm

Should you need any other information or customization don't hesitate to call us..

169PA30 RF Power Amplifier Module

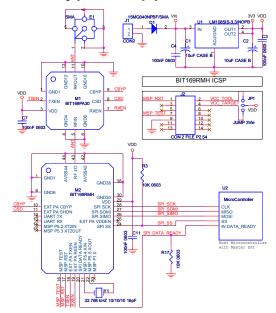
Features

- Seamless Interface to BIT169RMH Module from BIT
- Up to 30 dBm (1 Watt) Output Power
- Receive loss < 0.4dB
- Transmit bypass mode with 0.9 dB insertion loss
- Sleep mode current < 1mA
- High Transmit Power Efficiency
 PAE = 63% at 30 dBm Output Power
- Integrated control logic
- RoHS Compliant
- Small size (14.4 x 14.4 mm)
- 2 V to 3.6 V Operation

Applications

- Automated meter reading
- · Advanced metering infrastructure
- ISM systems

Typical Application



Control Logic

Mode	CSD	TXEN	RXEN	СВҮР
Sleep	0	Χ	Χ	X
Transmit bypass	1	1	0	0
Receive	1	0	1	X
Transmit	1	1	0	1

Note: "1" = 1.6 to VDD,

"0" = 0 to 0.7 V,

"X" = don't care.

Operating Conditions and Specification

Parameter	Min.	Тур	Max	Units	Remarks
RF Frequency Range		169		MHz	BIT169PA30
Operating Temperature	-40		+85	°C	
Supply Voltage VDD	2		3,6	V	
Current Consumption		- 680 665 680		μΑ μΑ mA μΑ	Sleep TX Bypass TX Rx
Input RF level		10		dBm	
Maximum Output Power		30		dBm	VDD = 3.6 V
Input Impedance		50		ohm	
Output Impedance		50		ohm	



Bit is Italian Technology S.r.l. Viale delle Industrie, 20 - 20020 Arese (MI) Tel.: (+39)0230465311, fax: (+39)0230465396 http://www.bit.it info@bit.it



http://www.kevin.it info@kevin.it