

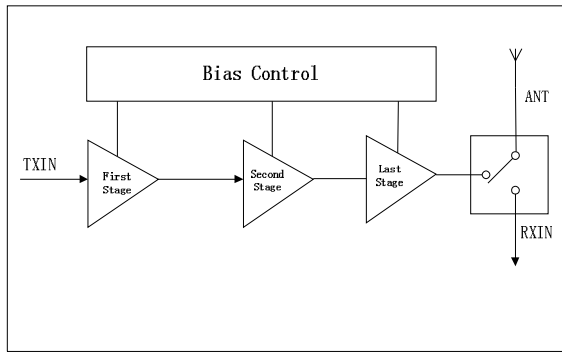
RDA5215 for PHS (1880~1930MHz)

The RDA5215 includes a power amplifier and an antenna switch. The PA and the switch are manufactured on HBT process and HEMT process respectively. This chip is designed for PHS handheld digital cellular equipment in the 1880~1930MHz band. The package of this chip is 3×3mm² MLPQ (QFN)* with 16 pins.

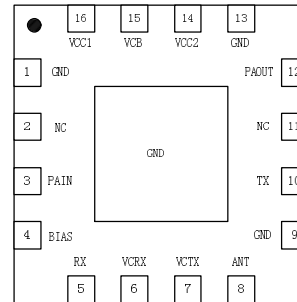
Features

- | PA + Antenna Switch
- | Advanced HBT and HEMT process
- | Input/Output matched @ 50 Ω
- | 23.5dBm linear output power
- | Good linearity
- | Low supply voltage (3.4~4.2V)

Function Block Diagram



Pin Assignment



Pin Name definition

Pin Number	Pin Name	Description
1	GND	Ground
2	NC	Not connected
3	PAIN	PA RF input
4	BIAS	PA BIAS Control
5	RX	Switch RX RF output
6	VCRX	Switch RX control
7	VCTX	Switch TX control
8	ANT	Switch Antenna RF Input/output
9	GND	Ground
10	TX	Switch TX RF Input
11	NC	Not connected
12	PAOUT	PA RF output
13	GND	Ground
14	VCC2	PA 2 nd stage power supply
15	VCB	PA bias power supply
16	VCC1	PA 1 st stage power supply

*Carsem MLPQ's are QFN (Quad Flat No-lead) type packages that are compliant to JEDEC's MO220