

## DESCRIPTION

The RA05H8693M is a 5watt RF MOSFET Amplifier Module that operate in the 866 to 928MHz range.

The battery can be connected directly to the drain of the enhancement-mode MOSFET transistors. The output power and drain current increase as the gate voltage increases.

With a gate voltage around 3.5V (minimum), output power and drain current increases substantially. The nominal output power becomes available at 3.8V (typical) and 4V (maximum).

At  $V_{GG}=5V$ , the typical gate current is 1 mA.

## FEATURES

- Enhancement-Mode MOSFET Transistors  
( $I_{DD} \approx 0$  @  $V_{DD}=14V$ ,  $V_{GG}=0V$ )
- $P_{out} > 5W$ ,  $I_T < 1.4A$  @  $V_{DD}=14V$ ,  $V_{GG}=5V$ ,  $P_{in}=1mW$
- $I_T < 1.4A$  @  $V_{DD}=14V$ ,  $P_{out}=3W$  ( $V_{GG}$  control),  $P_{in}=1mW$
- Broadband Frequency Range: 866-928MHz
- Low-Power Control Current  $I_{GG}=1mA$  (typ) at  $V_{GG}=5V$
- Module Size: 60.5 x 14 x 6.4 mm

## RoHS COMPLIANCE

- RA05H8693M-101 is a RoHS compliant products.
- RoHS compliance is indicate by the letter "G" after the Lot Marking.
- This product include the lead in the Glass of electronic parts and the lead in electronic Ceramic parts.

How ever