

RA03M4547MD

RoHS Compliance , 450-470MHz 38dBm 7.2V, 2 Stage Amp. For PORTABLE RADIO

DESCRIPTION

The RA03M4547MD is a 38 dBm output RF MOSFET Amplifier Module for 7.2 volt portable radios that operate in the 450 to 470 MHz range.

FEATURES

- Enhancement-Mode MOSFET Transistors
($I_{DD} \approx 0$ @ $V_{DD}=7.2V$, $V_{GG}=0V$)
- $P_{out} > 38dBm$ @ $V_{DD}=7.2V$, $P_{in}=19dBm$
 $I_{dq1}=30mA(V_{gg1} \text{ adjust.}), I_{dq2}=1A(V_{gg2} \text{ adjust.})$,
- $\eta_T > 34\%$ @ $V_{DD}=7.2V$, $P_{out}=38dBm$ (Pin adjust.),
 $I_{dq1}=30mA(V_{gg1} \text{ adjust.}), I_{dq2}=1A(V_{gg2} \text{ adjust.})$
- $IMD3 < -25dBc$ @ $V_{DD}=7.2V$, $P_{out} \text{ (average)} = 35dBm$ (Pin adjust.)
Two tone test at 1KHz separation
 $I_{dq1}=30mA(V_{gg1} \text{ adjust.}), I_{dq2}=1A(V_{gg2} \text{ adjust.})$
- Broadband Frequency Range: 450-470MHz
- Low-Power Adjust. Current $I_{GG}=1mA$ (typ) at $V_{GG}=3.5V$
- Module Size: 30 x 10 x 5.4 mm

BLOCK DIAGRAM

- 1 RF Input (P_{in})
- 2 FIRST STAGE GATE BIAS DC SUPPLY TERMINAL

RoHS COMPLIANT

- RA03M4547MD-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, it applicable to the following exceptions of RoHS Directions.

1. Lead in the Glass of a cathode-ray tube, electronic parts, and fluorescent tubes.
2. Lead in electronic Ceramic parts.

ORDERING INFORMATION:

ORDER NUMBER	SUPPLY FORM
RA03M4547MD-101	Antistatic tray, 50 modules/tray