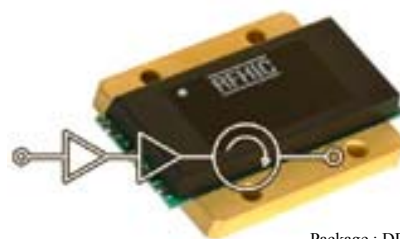


### Product Features

- Small size by using simple matching circuit board
- Single Supply Voltage
- Heat sink 99.9% copper, gold plated
- High Productivity
- Low Manufacturing Cost
- GaAs HFET

### Application

- DCS Repeater
- RF Sub-Systems
- Base Station



Package : DP-56

### Description

The power amplifier module is designed for base stations and cell extenders and operating frequency range is from 300MHz to 2.3GHz

GaAs HFET is used and attached on a copper sub carrier. It is connected by using bias and in/out matching circuit method with gold wire bonding.

The bias and matching circuit are designed much simpler than other circuits for silicon IC's, LDMOS because GaAs HFET is operated by low supply voltage whereas others are operated by high supply voltage.

For better thermal conductivity, enhanced mode PCB was used in the 99.9% copper gold plate heat sink.

This simplicity results cost competitiveness and performance enhancement.

### Specifications

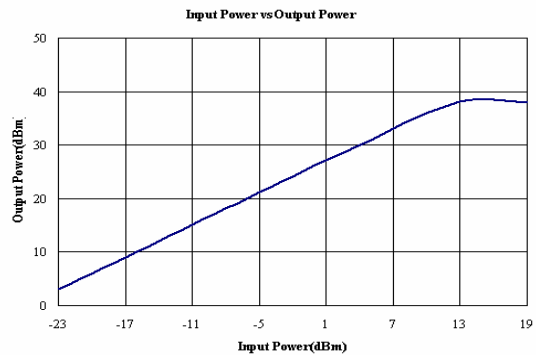
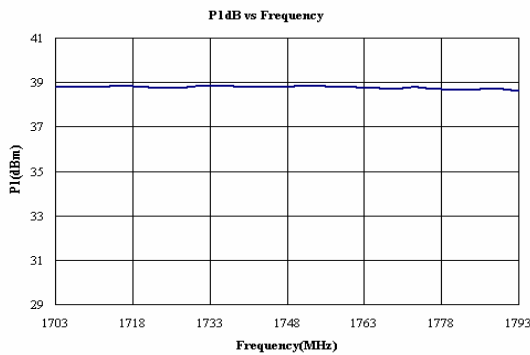
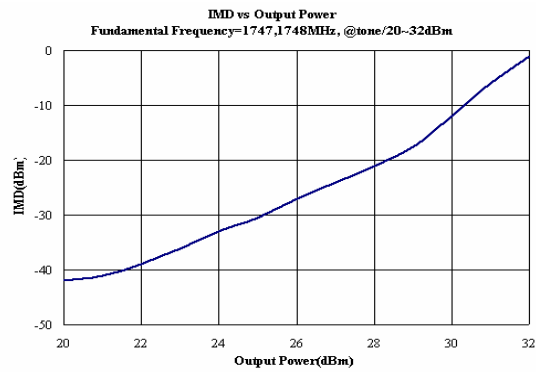
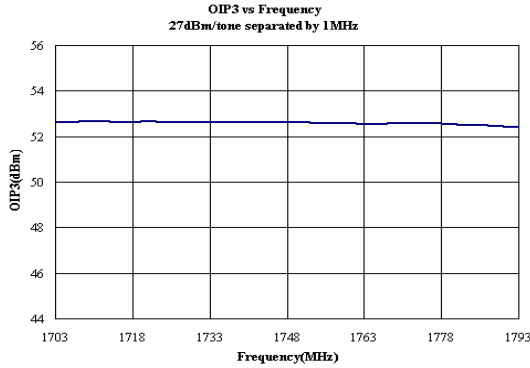
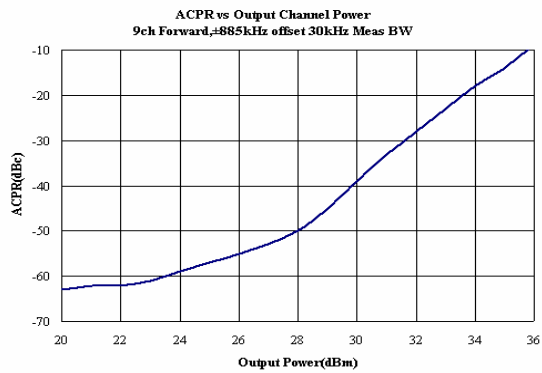
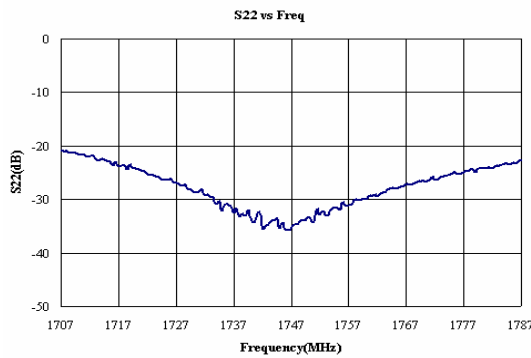
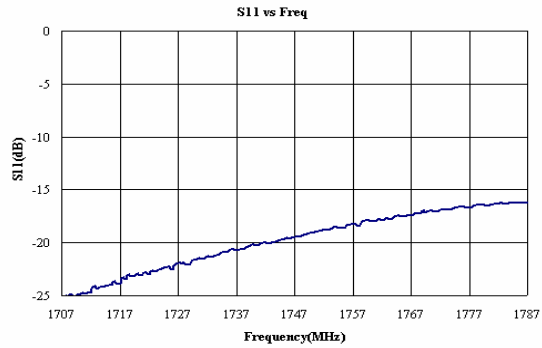
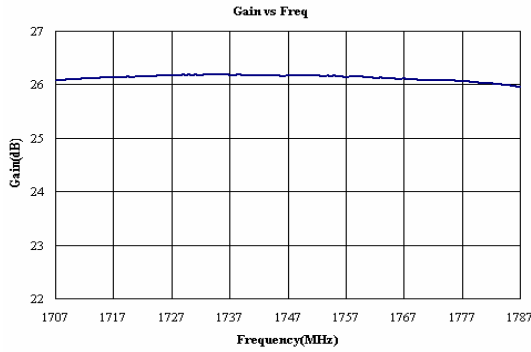
PARAMETER	Min	Typ	Max
Frequency Range (MHz)	1710 ~ 1785		
Small Signal Gain (dB)	26		
Gain Flatness (Max.)	± 0.5dB @ 50MHz BW		
Gain Variation Over Temp		± 0.7dB	± 1.5dB
Output Return Loss	-15dB		
Output P1dB	36 dBm	37 dBm	
CDMA Power (1 FA)	31dBm @ -45dBc ACPR		
OIP3 @ tone / 27 dBm	50 dBm	51 dBm	
Noise Figure (Typ.)	4 dB		
Drain Voltage	10V		
Drain Current	1.5A		
Operating Temp Range	-20°C ~ +70°C		
Dimensions (W×L×H)	32.0 × 44.0 × 10.0 [mm]		

#### NOTE

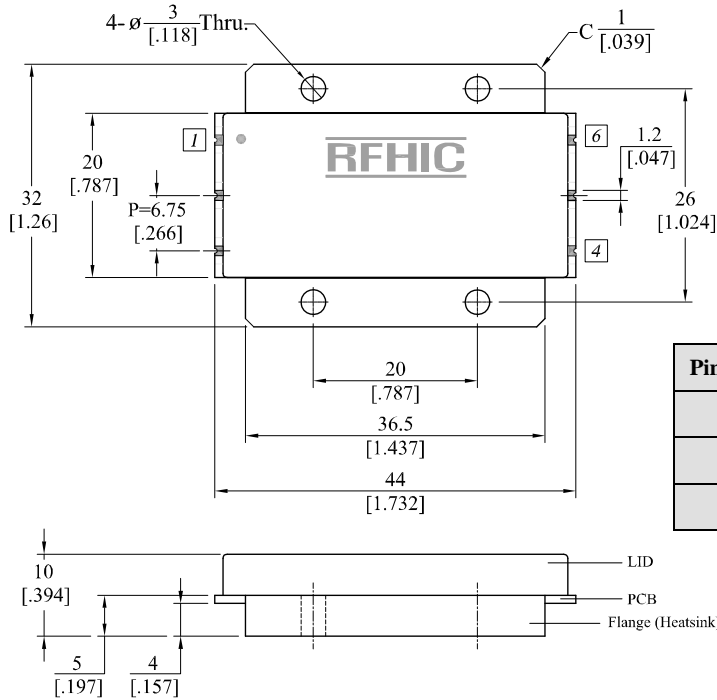
\* CDMA : 1.25MHz symbol rate ; Forward Link ; 9 Channels, Multi tone Available  
@ ±885KHz and ±1.98MHz offset in 30KHz resolution bandwidth

\* RFW Series : Internally Matched Module

### Performance Charts ( $V_d=10V$ , $I_d=1.5A$ , $T=25^\circ C$ )



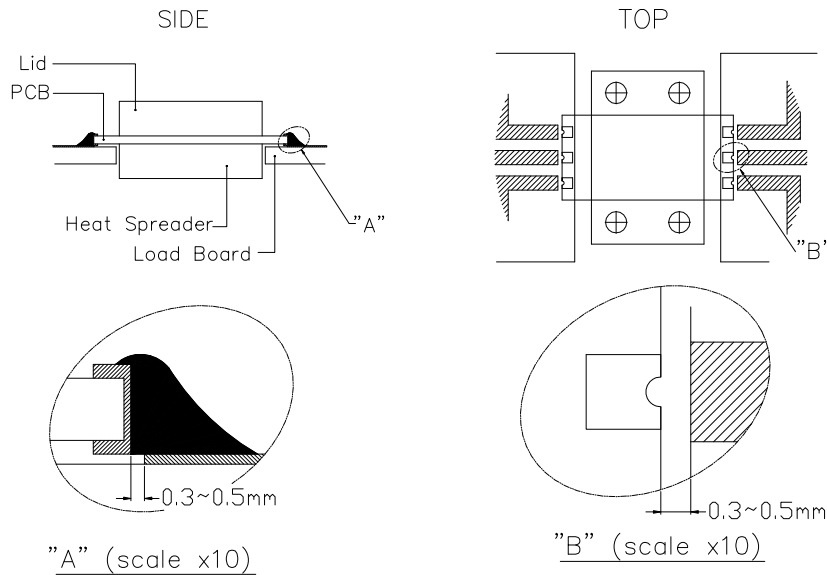
Package Dimensions (Type: DP-56)



Unit : $\frac{\text{mm}}{\text{[inch]}}$	Tolerance : $\pm \frac{0.2}{.008}$
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Pin NO	Function	Pin NO	Function
1	GND	6	Vcc
2	RF IN	5	RF OUT
3	E/N	4	GND

Installation Guideline



★ It can be easily removed with solder wick and other removable material

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