

## RF Amplifier Module 10 MHz-5000 MHz

# AMP 10-24C

## Power Output 100 mW

### Features

- P1dB Output Power: +19 dBm to 2.5 GHz
- Gain: 19 dB @ 1 GHz
- 16 dB @ 2 GHz
- +34 dBm Output IP3

### Applications

- Cellular / PCS / 3G
- Fixed Wireless & WLAN
- CATV, Cable Modem & DBS
- Microwave Radio & Test Equipment



Parameter		Min.	Typ.	Max.	Units
Gain	DC - 1.0 GHz	17	19		dB
	1.0 - 2.0 GHz	14	17		dB
	2.0 - 3.0 GHz	12	15		dB
	3.0 - 4.0 GHz	10	13		dB
	4.0 - 5.0 GHz	8	11		dB
Gain Variation Over Temperature	DC - 5 GHz		0.008	0.016	dB/ °C
Input Return Loss	DC - 1.0 GHz		17		dB
	1.0 - 5.0 GHz		10		dB
Output Return Loss	DC - 1.0 GHz		17		dB
	1.0 - 5.0 GHz		10		dB
Reverse Isolation	DC - 5 GHz		20		dB
Output Power for 1 dB Compression (P1dB)	0.5 - 1.0 GHz	16	20		dBm
	1.0 - 2.0 GHz	15.5	18.5		dBm
	2.0 - 3.5 GHz	14.5	17.5		dBm
	3.5 - 5.0 GHz	13	16		dBm
Output Third Order Intercept (IP3) (Pout= 0 dBm per tone, 1 MHz spacing)	0.5 - 1.0 GHz		34		dBm
	1.0 - 2.0 GHz		33		dBm
	2.0 - 3.5 GHz		32		dBm
	3.5 - 5.0 GHz		30		dBm
Noise Figure	DC - 4 GHz		3.25		dB
	4.0 - 5.0 GHz		4.0		dB
Supply Current (Icq)			82		mA