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ISO 9001 ISO 14001

INSPOWER

RF Amplifiers

*INSPOWER Co., Ltd.

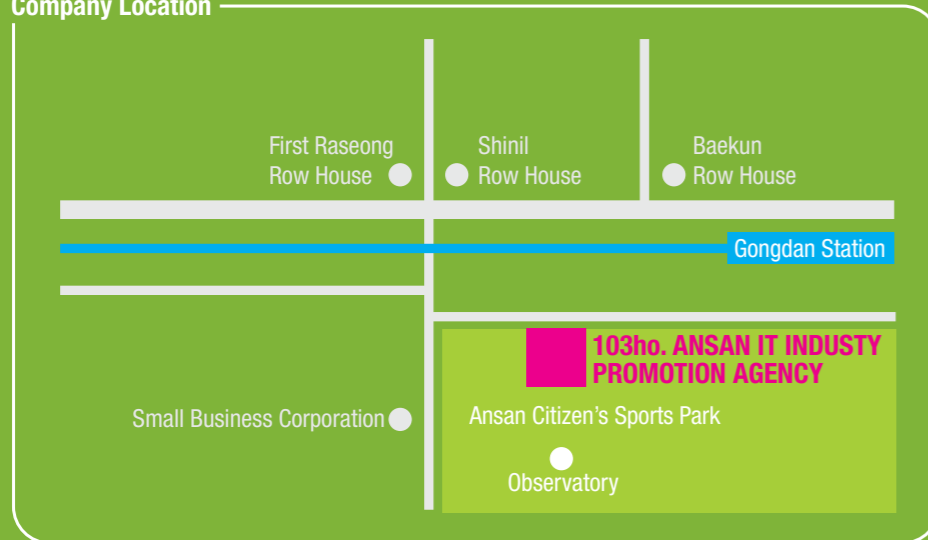
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Company Location



Company Profile

About INSPOWER

Inspower co., ltd was established in April 2010. Inspower specializes in the manufacture and design of RF amplifiers and associated RF hardware.

Inspower's product lines include the following products:

- High Power RF and Microwave Linear Amplifier Module
- High Power Broadband RF and Microwave Amplifier Module
- RF Hybrid Amplifier Module

Mission

It is our priority to design and deliver high quality, innovative products which solve customer systems and business requirements

Capabilities

Development

Our development team is comprised of industry veterans with a minimum of 10 years experience in the microwave field of RF design.

Inspower veterans and experienced designers have the skill and knowledge to quickly and accurately design and produce the most challenging RF and microwave amplifier assemblies, customized to meet specific needs and performance requirements.

Our experienced Development team use design tools and well proven manufacturing techniques combined with the utilization of the latest advanced semiconductor technologies to offer the most up to date solutions to customer requirements.

Manufacturing

100% in-house manufacture and an extensive stock of RF & microwave materials and components enables us to design and produce production quantities as well as prototypes in the shortest of timescales.

Our fully equipped test and measurement system provides alignment and test capability together with 100% burn-in screening for our wide product range, with frequencies up to 20GHz and output power in excess of 1kW. Calibrated network & spectral analysis, noise and power measurement, ensures that you get a product fully tested for compliance and quality be it for a single standard amplifier, or a large quantity of custom designed sub-systems

Quality Assurance

Inspower co., ltd has made their best efforts to achieve customer satisfaction with aim to best quality and service since Apr 2010.

We have designed our quality management system to ensure customer satisfaction is achieved at all client interface and all internal processes are effectively controlled.

Inspower is ISO9001:2008 and ISO14001:2004 certified.

Application-Specific Power Amplifiers

Application-Specific Power amplifiers are suitable for Jammer Applications. Solid state Amplifiers design offer extremely broad bandwidth, high-power, high-efficiency, and reliability. inspower's power Amplifiers are available in power levels to 200 watts in the industry's most compact form factors, and use semiconductor technologies such as LDMOS and GAN, as well as other technologies as specific applications require.

Product Features

- Integrated output isolator
- Ultra-Compact
- High reliability and ruggedness
- High efficiency linear design
- Built-in control and protection function
- customized versions available

Applications

- Man-pack Jammers
- Electronic warfare
- Vehicle-mount Jammers

Model Number	Frequency Range	Pout (Watts)	Voltage (Volts)	Current (Amps)	Size (mm)	Application
i800-1000-40	800-1000MHz	40	27	5.5	110x95x22	CW
i860-960-100	860-960MHz	100	27	5.5	150x135x25	CW
I1800-2000-401	800-2000MHz	40	27	12	110x95x22	CW
I1800-2000-100	1800-2000MHz	100	27	12	140x125x25	CW
I3400-3700-100	3400-2700MHz	100	30	23	150x170x28	CW



Linear Power Amplifiers for Communication

Inspower's Cost Competitive, multi carrier and single carrier Linear Power Amplifiers products provide Telecommunication systems manufacturers with extremely high reliability, excellent performance and significant price advantage.

Product Features

- Various frequency bands.
- Output power from 3W to 80W
- Field Proven reliability
- Extremely cost competitive purchase price
- Wide Temperature range

Applications

- CDMA/WCDMA/WiBro/LTE
- RRH
- Repeater

1. Linear High Power Amplifiers

Model Number	Frequency Range	Pout (Watts)	Voltage (Volts)	Current (Amps)	Size (mm)	Application
MA-0800-08	869-894MHz	8	29	3.2	165x170x28	CDMA
MA-0800-30	869-894MHz	30	29	10	165x170x28	CDMA
MA-0800-80	869-894MHz	60	27	17	250x245x50	CDMA
MA-2100-08	2130-2150MHz	8	27	3	120x100x25	WCDMA
MA-2100-30	2130-2150MHz	30	29	12	250x205x30	WCDMA
MA-2100-60	2130-2150MHz	60	27	15.5	250x205x54	WCDMA
MA-2300-30	2300~2327MHz	45	27	17.5	250x245x54	WiBro



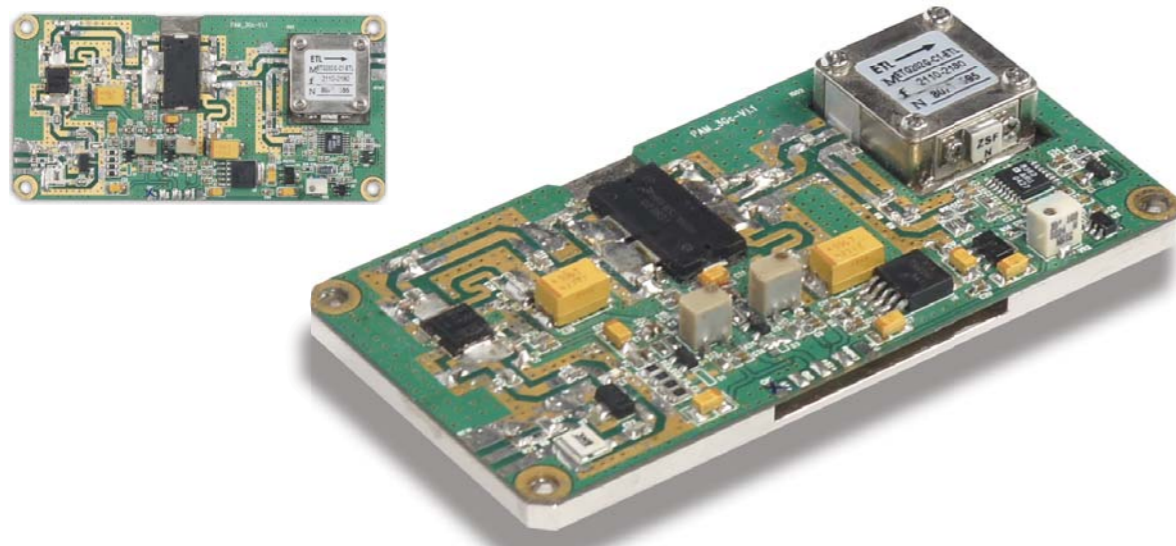
2. High Efficiency Power Amplifiers (Doherty Configuration for DPD)

Model Number	Frequency Range	Pout (Watts)	Voltage (Volts)	Current (Amps)	Size (mm)	Application
DA-0800-30	869-894MHz	30	29	4.5	170x175x28	CDMA
DA-0800-60	869-894MHz	60	29	9	170x175x28	CDMA
DA-2100-30	2120-2150MHz	30	29	4.5	170x175x28	WCDMA
DA-2100-60	2120-2150MHz	60	29	9	170x175x28	WCDMA
DA-2100-80	2120-2150MHz	80	29	11	170x175x28	WCDMA



3. Linear Amplifier Pallets

Model Number	Frequency Range	Pout (Watts)	Voltage (Volts)	Current (Amps)	Size (mm)	Application
PA-0800-3	869-894MHz	3	29	1.7	45x90x15	CDMA
PA-2100-3	2130-2150MHz	3	29	1.7	45x90x15	WCDMA
PA-2100-5	2120-2150MHz	5	29	2	160x70x22	WCDMA
PA-2100-10	2120-2150MHz	10	29	4	160x70x22	WCDMA



RF Hybrid Amplifiers

Inspower's Hybrid Amplifiers is designed for communication applications. The amplifiers use LDMOS FET devices over substrate via chip on board. Input and output matching and bias circuits are integrated. The module is internally matched to 50ohms and operates directly from 28V making system integration very simple.

Product Features

- 50Ω RF impedance, Fully Integrated Matching
- High Gain
- No Matching circuit needed
- Single Supply Operation : Nominally 28V
- High Output Power
- ROHS Compliant

Application

- CDMA/WCDMA/LTE/GSM
- Repeater
- High Power Amplifier Driver

Model Number	Frequency Range	Pout (Watts)	Voltage (Volts)	Size (mm)	Cross Ref.
INS2110	2110-2170MHz	10	28	45x14x7	Motorola MHPA21010N Sirenza SM07-104Y
INS1912	1930-1995MHz	12	28	45x14x7	Motorola MHPA19010N Sirenza XD010-24S-D2F
INS0808	800-925MHz	8	28	45x14x7	Motorola MHL9838
INS1903	1900-2000MHz	3	28	45x14x7	Motorola MHL19338
INS2103	2110-2170MHz	3	28	45x14x7	Motorola MHL21336
INS0803	800-9604MHz	3	28	45x14x7	Motorola MHL9236

