



# FSP-HPA-010-011 50W

*High Power Solid State Amplifier 1 to 1.1 GHz*

## Typical Applications

The FSP-HPA-010-011 50W is ideal for:

- Commercial Radar (IFF Radar)
- Military Radar
- Electronic Warfare
- Test equipment



**Table 1. Specifications**

Input Power	
DC Power	+27V/5A
Output Specifications [ @ 25° C ]	
Frequency Range	1000-1100 MHz
Saturated Power Output	≥50W TYP
Gain	50±2 dB
Min Noise Figure	5 dB TYP
In/Out VSWR	<1.4:1 TYP
In/Out Impedance	50 Ω
In-band flatness	≤2dB
Third-order inter-modulation	≤-2dBc
Gain stability	±0.5dB/24h(Normal temperature)
Input /output	with 20dB Isolator
Efficiency	≥34%
Noise Wave	≤-60dBc
RF In / Out	SMA-Female
Local/ Remote	TTL
Mechanical	
Aluminum Chassis - Grounded	
190x120x26 [mm]	
Environmental	
Operating Temperature	-20° to 50° C Storage
Temperature	-40° to 50° C
Relative Humidity	5 to 95% non-condensing
MTBF	
200,000 hours	

## Features

Lightest weight

Highest Power

Smallest footprint

## General Description

The FSP-HPA-010-011 50W is a high power rack mounted microwave amplifier that covers a 0.1 GHz range in the 1.0-1.1 GHz band. The FSP-HPA-010-011 provides an output of 50 watts. A number of options are available depending on customer requirements. TTL Local/Remote switching is provided as an option.

Small and rugged, the FSP-HPA-010-011 50W is ideal for replacement of TWT amplifiers – offering up to 30 dB improvement in noise and very short group delay characteristics. A small footprint and low power consumption make it excellent for mounting at the antenna or load, and no warm-up time is required, providing instant power-up.

Monitoring Functions	
PIN1	1dB Attenuation (Hang in air or add 5VDC: No attenuation; Grounding: attenuation )
PIN2	2dB Attenuation (Hang in air or add 5VDC: No attenuation; Grounding: attenuation )
PIN3	4dB Attenuation (Hang in air or add 5VDC: No attenuation; Grounding: attenuation )
PIN4	8dB Attenuation (Hang in air or add 5VDC: No attenuation; Grounding: attenuation )
PIN5	16dB Attenuation (Hang in air or add 5VDC: No attenuation; Grounding: attenuation )
PIN7	V/L, VSWR (reflected RF Power, Max voltage,4V; 0.02V/1dBm)
PIN10	P/L (Output RF Power; Max voltage,4V; 0.02V/1dBm)
PIN11	LE :Enable, High Level: OFF; Low Level: ON or hang in air
PIN14	T/ L Temperature: 0.02V/1 Celsius , 0.3V for 30 Celsius
PIN15	GND
PIN6, PIN8, PIN9, PIN12, PIN13 : NC	

Selling this equipment only to state enterprises or companies that have regulatory authority is possible.

For price, delivery, and to place orders, please contact **Fidar System Pooyan Corporation**:

[www.cintix.ir](http://www.cintix.ir) Phone: +98-21-88516856 Fax: +98-21-88735031