



# FSP-GSM-R-5W

## Medium Power Solid State Repeater 900 MHz

### Typical Applications

The **FSP-GSM-R-5W** is ideal for:

- Providing mobile service in shadow Regions



**Table 1. Specifications**

Main Item		Specification(on user requirement)	
		Uplink	Downlink
GSM or DCS or WCDMA		824-849Mhz Or 890-915Mhz Or 1710-1785Mhz Or 1850-1910Mhz Or 1920-1980Mhz Or customized	869-894Mhz Or 935-960Mhz Or 1805-1880Mhz Or 1930-1990Mhz Or 2110-2170Mhz Or customized
Maximum Gain		90dB	95dB
ALC		Output increment will not exceed 2dB when input increase 10dB	
Frequency Error		±0.5ppm	
Gain Control Range		0~30dB	
RF Output Power		37dBm	
Noise Figure		5dB	
Group Delay		1.5us	
In band Flatness		3dB	
Intermodulation attenuation	In band	-50dBc/30KHz	
	Out band (Off 2.5MHz)	-36dBm/30KHz@9KHz-1GHz	
		-30dBm/30KHz@1GHz-12.75GHz	
Out band Rejection	Broadband	-40dB@±2.5MHz	
		-60dB@±10MHz	
Spurious emission		-36dBm/30KHz@9KHz-1GHz	
		-30dBm/30KHz@1GHz-12.75GHz	
VSWR		1.5	
Power Supply		110VAC or 220VAC or other	
Size		610mmx440mmx250mm (5watt)	
Weight		30kg for 5watt	
Work temperature		-40℃~+55℃ or -25℃~+65℃	
Relative humidity		95%	
Operation Configuration		Manual 5-digit Toggle Switch 10 digital LED display for output power Or LCD Display, Manual Key-press, PC RS232 Port Remote control: Remote Modem (Optional)	
Others		Refer to user manual for more specification	

### Features

- Die-casting Waterproof cabinet suitable in outdoor and indoor
- Pole-installation, Wall-installation and Tower-installation are available
- Cavity filter and IF SAW gives higher isolation, better gain flatness, higher stability, and lower noise figure;
- Allowing for continuous gain adjustment and gain contrast;

### Description

Booster is used in order to provide a mobile service to subscribers in shadow region, and operates well in all sorts of mobile networks. RF signal received from the BTS is amplified by low noise amplifier at the first stage, filtered by BPF, amplified by high power amp at last stage, and retransmitted to the subscribers; RF signal received from mobile phone also.

