

**DUAL BAND REPEATER**  
**Rosenfelt RF-EDWxx-L serie**  
**900 MHz E-GSM & 1800 MHz DCS**  
**& 2100 MHz UMTS**



Electrical specification		Uplink	Downlink
Frequency Range		E-GSM 900 / DCS 1800 / UMTS 3G 2100	
Bandwidth	EGSM / GSM 900 MHz	880 - 915 MHz	925 - 960 MHz
	DCS 1800 MHz	1710 - 1785 MHz	1805 - 1880 MHz
	UMTS 2100 MHz	1920 - 1980 MHz	2110 - 2170
Max .Output Power	RF-EDW10-L	≥ 10dBm	≥ 13 dBm
	RF-EDW15-L	≥ 12dBm	≥ 15 dBm
	RF-EDW20-L	≥ 15 dBm	≥ 20 dBm
	RF-EDW23-L	≥ 15 dBm	≥ 23 dBm
Max .Gain	RF-EDW10-L	≥ 60 dB	≥ 60 dB
	RF-EDW15-L	≥ 65 dB	≥ 70 dB
	RF-EDW20-L	≥ 70 dB	≥ 70 dB
	RF-EDW23-L	≥ 70 dB	≥ 75 dB
Input Power		0 dBm (Max): Absolute	
MGC (Step Attenuation)		31 dB / 1 dB step	
Automatic Level Control		≥ 20 dB	
Passband Ripple		total ≤ 5 dB	
Out of Band Gain	$2.7 \leq f_{\text{offset}} < 3.5 \text{ MHz}$	< 60 dB	
	$3.5 \leq f_{\text{offset}} < 7.5 \text{ MHz}$	< 45 dB	
	$7.5 \leq f_{\text{offset}} < 12.5 \text{ MHz}$	< 45 dB	
	$12.5 \leq f_{\text{offset}}$	< 35 dB	
Spurious Emission	9kHz~1GHz	≤ -36 dBm	
	1 GHz ~12.75 GHz	≤ -30 dBm	
ACRR		20 dBc / 30 kHz@ ±5 MHz	
		20 dBc / 30 kHz @ ±10 MHz	
Frequency stability		≤ 0.01 ppm	
Error Vector Magnitude		≤ 12.5%	
Peak Code Domain Error		≤ -35 dB @ Spreading Factor 256	
Noise Figure		≤ 6 dB	
V.S.W.R		≤ 2.0	
Group Delay		≤ 1 μs	

Power Consumption	≤25 W
Cooling	Heatsink Convection cooling
ISO (Donor antenna and Service antenna)	Flickers every 1 s when isolation is insufficient; lights up when normal.
Smart Mode	Automatically adjusts gain for both links according to the specific environment.
Input and Output signal strength	Show Input signal strength with numerical number. Shows Output signal strength with signal bars.
<b>LED Alarm</b>	Standard
Power LED	Green @ Normal work
ALC LED	Green flickering @ ALC 1~10 dB; Orange flickering @ ALC 11~20 dB; Red flickering @ ALC above 21 dB

<b>Mechanical Specifications</b>	Standard
I /O Port	N-Female
Impedance	50 ohm
Operating Temperature	-10 °C ~ +55 °C
Environment Conditions	IP40
Dimensions	150*210*36mm
Weight	≤2.5 Kg
Power Supply	Input AC 100~240 V, output DC 12 V / 5A