

SINGLE BAND REPEATER
Rosenfelt RF E10-S serie
900 MHz



Electrical specification		Uplink	Downlink
Frequency Range		GSM 900 MHz	
	GSM 900 MHz	880 - 915 MHz	925 - 960 MHz
Max .Output Power		≥10 dBm	≥10 dBm
Max .Gain		≥65dB	≥65dB
Input Power		0dBm(Max) : Absolute	
MGC (Step Attenuation)		31 dB / 1 dB step	
Automatic Level Control		≥ 20 dB	
Passband Ripple		total≤ 5dB	
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	9 kHz~ 1 GHz	≤ -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.
LED Alarm	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

Mechanical Specifications	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 5V / 2A