

DUAL BAND REPEATER
Rosenfelt RF-ELxx-L serie
800 MHz 4G LTE & 900 MHz E-GSM



Electrical specification		Uplink	Downlink
Frequency Range		LTE800 / E-GSM900	
Bandwidth	EGSM / GSM	880 - 915 MHz	925 - 960 MHz
	LTE	830 - 865 MHz	790 - 825 MHz
Max .Output Power	RF-EL10-L	≥10dBm	≥10dBm
	RF-EL13-L	≥10dBm	≥13dBm
	RF-EL15-L	≥12dBm	≥15dBm
	RF-EL20-L	≥15dBm	≥20dBm
	RF-EL23-L	≥15dBm	≥23dBm
Max .Gain	RF-EL10-L	≥60dB	≥60dB
	RF-EL13-L	≥60dB	≥65dB
	RF-EL15-L	≥65dB	≥65dB
	RF-EL20-L	≥65dB	≥70dB
	RF-EL23-L	≥70dB	≥75dB
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 f_offset < 3.5MHz	<60 dB	
	3.5 f_offset < 7.5MHz	<45 dB	
	7.5 f_offset < 12.5MHz	<45 dB	
	12.5 f_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.
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 ~ +55
Environment Conditions	IP40
Dimensions	150*210*36mm
Weight	≤2.5 Kg
Power Supply	Input AC 100~240 V, output DC 12 V / 5A