

Dual band Repeater
Rosenfelt RF ZL 10-13-15-20- 23-RL Series
 700 MHz 5G & 800 MHz LTE



Electrical specification		Uplink	Downlink
Frequency Range	5G 700	703 ~733 MHz	758 ~788 MHz
	LTE800	832 ~862 MHz	791 ~821 MHz
Max .Gain	RF ZL23-RL	70±3dB	75±3dB
	RF ZL20-RL	65±3dB	70±3dB
	RF ZL15-RL	65±3dB	65±3dB
	RF ZL13-RL	65±3dB	65±3dB
	RF ZL10-RL	60±3dB	65±3dB
Max .Output Power	RF ZL23-RL	15±2dBm	23±2dBm
	RF ZL20-RL	15±2dBm	20±2dBm
	RF ZL15-RL	12±2dBm	15±2dBm
	RF ZL13-RL	10±2dBm	13±2dBm
	RF ZL10-RL	10±2dBm	10±2dBm
Bandwidth		Wide Band	
MGC (Step Attenuation Via Touch Panel)		≥ 31dB / 1dB step	
Automatic Level Control		≥ 15dB, auto shut off after 15dB	
Spurious Emission	9KHz~1GHz	≤ -36dBm	
	1GHz~12.75GHz	≤ -30dBm	
Frequency stability		≤ 0.01ppm	
Error Vector Magnitude		≤ 12.5%	
Peak Code Domain Error		≅ -35dB@Spreading Factor 256	
Noise Figure		≤ 8dB	
VSWR		≤ 3.0	
Group Delay		≤ 1.0μs	
Frequency Stability		≤ 0.01ppm	
Intelligent Functions			
ISO(Donor antenna and Service antenna)		Flickering per 1s when the Isolation is not enough; it lights up when is normal.	
Smart Mode		Automatically adjust the gain in both links according to the specific environment.	
Input and Output signal strength		Shown Input signal strength with numeral number. Shown Output signal strength with signal bars.	

Remote Monitor	Use APP to monitor repeater via WIFI on mobile phone.
LED Alarm	Standard
Power LED	Power Indicator
ALC LED	Orange @ ALC 1~5dB, Red @ ALC 15dB~20dB, LED off after 5 seconds red
Mechanical Specifications	
I/O Port	N-Female
Impedance	50 ohm
Operating Temperature	-25°C~+55°C
Environment Conditions	IP40
Dimensions	210 x 150 x 45 mm
Weight	3 kg
Power Supply	Input AC100~240V,output DC 12V / 5A