

**TRI BAND REPEATER**  
**Rosenfelt RF-LED15-L**

800 MHz 4G LTE, 900 MHz EGSM , 1800 MHz DCS



Electrical specification		Uplink	Downlink
Frequency Range		LTE 800 / GSM 900 / DCS 1800	
Bandwidth		Wide band	
	LTE 800 MHz	830 - 865 MHz	790 - 825 MHz
	EGSM 900 MHz	880 - 915 MHz	925 - 960 MHz
	DCS 1800 MHz	1710 - 1785 MHz	1805 - 1880 MHz
Max .Output Power		≥ 13 dBm	≥ 15 dBm
Max .Gain		≥ 65 dB	≥ 65 dB
Input Power		0 dBm (Max) : Absolute	
MGC (Step Attenuation)		31 dB / 1dB step	
Automatic Level Control		≥ 20 dB	
Passband Ripple		LTE ≤ 10 dB ; EGSM-DCS ≤ 10 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	

<b>Intelligent Functions</b>	Standard
<b>LED Alarm</b>	Standard
Cooling	Heatsink Convection cooling
<b>Intelligent Functions</b>	Standard
ISO(Donor antenna and Service antenna)	Flickers every 1 s when isolation is insufficient; lights up when normal.
Smart Mode	Automatically adjusts gain fo rboth 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*36 mm
Weight	≤ 2.5 Kg
Power Supply	Input AC 100~240 V, output DC 12 V / 5A