

TRI BAND REPEATER
Rosenfelt RF-LED20

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



Electrical specification		Uplink	Downlink
Frequency Range		LTE800 / GSM900 + 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		≥15dBm	≥20dBm
Max .Gain		≥65dB	≥70dB
Input Power		0dBm(Max) : Absolute	
MGC (Step Attenuation)		31dB / 1dB step	
Automatic Level Control		≥ 20dB	
Passband Ripple		LTE≤10dB; EGSM≤10dB	
Out of Band Gain	2.7≤f_offset<3.5MHz	<60dB	
	3.5≤f_offset<7.5MHz	<45dB	
	7.5≤f_offset<12.5MHz	<45dB	
	12.5≤f_offset	<35dB	
Spurious Emission	9kHz~1GHz	≤ -36dBm	
	1 GHz ~12.75 GHz	≤ -30dBm	
ACRR		20dBc/30KHz@±5MHz	
		20dBc/30KHz@±10MHz	
Frequency stability		≤ 0.01ppm	
Error Vector Magnitude		≤ 12.5%	
Peak Code Domain Error		≤ -35dB@Spreading Factor 256	
Noise Figure		≤6dB	
V.S.W.R		≤ 2.0	
Group Delay		≤ 1μs	
Power Consumption		≤25W	
Intelligent Functions		Standard	
LED Alarm		Standard	
Cooling		Heatsink Convection cooling	

Intelligent Functions	Standard
ISO(Donor antenna and Service antenna)	Flickers every 1 s when isolation is insufficient; lights up
Smart Mode	Automatically adjusts gain fo rboth links according to the
Input and Output signal strength	Show Input signal strength with numerical number. Shows
LED Alarm	Standard
Power LED	Green @ Normal work
ALC LED	Green flickering @ ALC 1~10 dB; Orange flickering@ ALC

Mechanical Specifications	Standard
I /O Port	N-Female
Impedance	50 ohm
Operating Temperature	-10 °C ~ +55 °C
Environment Conditions	IP40