

5-BAND REPEATER Rosenfelt RF-20-5B-L

800 MHz 4G LTE, 900 MHz EGSM, 1800 MHz DCS,
2100 MHz 3G UMTS WCDMA, 2600 MHz 4G LTE



Electrical specification		Uplink	Downlink
Frequency Range		LTE 800 / GSM 900 / DCS 1800 / UMTS 2100 / LTE 2600	
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
UMTS 2100 MHz		1920 - 1980 MHz	2110 - 2170 MHz
LTE 2600 MHz		2500 - 2570 MHz	2620 - 2690 MHz
Max .Output Power		≥ 20 dBm	≥ 15 dBm
Max .Gain		≥ 65 dB	≥ 70 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	
Intelligent Functions		Standard	
LED Alarm		Standard	

Cooling	Heatsink Convection cooling
Intelligent Functions	Standard
ISO(Donor antenna and Service antenna)	Flickers every 1 sec. 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	240 x 170 x 35 mm
Weight	≤ 2.5 Kg
Power Supply	Input AC 100~240 V, output DC 12 V / 5A