

**5-BAND REPEATER  
Rosenfelt RF FB10S**

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        | ≥10 dBm   | ≥10 dBm         |
| Max .Gain                | ≥65 dB  | ≥65 dB          |
| Input Power              | 0 dBm(Max) : Absolute                               |                 |
| MGC (Step Attenuation)   | 31 dB / 1dB step                                    |                 |
| Automatic Level Control  | ≥ 10 dB   |                 |
| Passband Ripple          | LTE≤10 dB; EGSM-DCS≤10 dB                           |                 |
| 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                     | 20 dBc/30KHz@±5MHz                                  |                 |
|                          | 20 dBc/30KHz@±10MHz                                 |                 |
| Frequency stability      | ≤ 0.01ppm   |                 |
| 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                         |                 |
|                          |   |                 |
|                          |   |                 |

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|--|--|
| <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 |
| Smart Mode                             | Automatically adjusts gain fo rboth links according to the   |
| Input and Output signal strength       | Show Input signal strength with numerical number. Shows      |
| <b>LED Alarm</b>                       | Standard   |
| Power LED                              | Green @ Normal work  |
| ALC LED                                | Green flickering @ ALC 1~10 dB; Orange flickering@ ALC       |

|                                  |  |
|----------------------------------|--|
| <b>Mechanical Specifications</b> | Standard                               |
| I /O Port                        | N Female                               |
| Impedance                        | 50 ohm                                 |
| Operating Temperature            | -10 °C ~ +55 °C                        |
| Environment Conditions           | IP40                                   |
| Dimensions                       | 150 x 210 x 36 mm                      |
| Weight                           | ≤2.5 Kg                                |
| Power Supply                     | Input AC 100~240 V, output DC 9 V / 3A |