

## 5-BAND INLINE REPEATER

### Rosenfelt RF-20-5BT-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   | ≥20 dBm         |
| Max .Gain                    | ≥0 dB   | ≥20 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≤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   |                 |
| <b>Intelligent Functions</b> | Standard  |                 |
| <b>LED Alarm</b>             | Standard  |                 |

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| 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                       | 240 x 170 x 35 mm                       |
| Weight                           | ≤2.5 Kg                                 |
| Power Supply                     | Input AC 100~240 V, output DC 12 V / 5A |