



**BONN HUNGARY  
ELECTRONICS**

**GSM - DCS DUAL BAND  
BAND-SELECTIVE  
MINI-REPEATER**

**BRDM10**  
NDS # 913

an ISO 9001 Certified Company

- **5 W OUTPUT POWER**
- **HIGH SENSITIVITY**
- **HIGH DYNAMIC RANGE**
- **SMALL SIZE**

PRELIMINARY



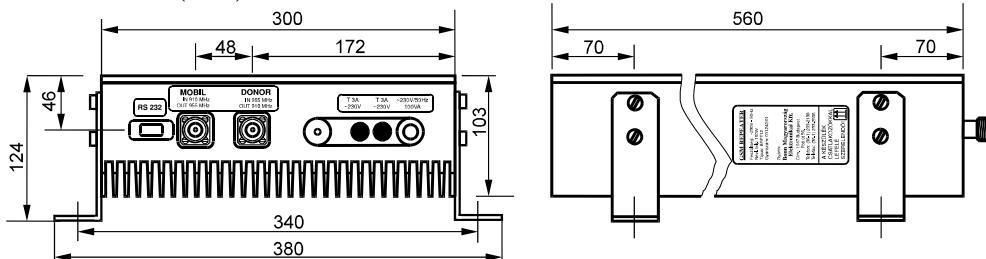
This dual band mini-repeater is intended for use in GSM & DCS indoor or outdoor systems. It is a very compact and lightweight unit and it is especially advantageous to use it in places, where the field strength is weak. It is a cost effective solution to cover areas, which cannot be covered economically with base stations. It is a very economical solution can be installed easily. Status information such as overload, overtemperature, supply voltage failure, PLL unlock can be monitored through RS232 connection. It can be also monitored and set by optional remote control software.

**ELECTRICAL CHARACTERISTICS :**

Frequency Band Uplink	890 – 915 MHz @ GSM	1710 – 1785 MHz @DCS
Frequency Band Downlink	935 – 960 MHz @ GSM	1805 – 1880 MHz @DCS
Frequency Bandwidth (Up/Downlink)	3 – 25 MHz (*)	
Mode of Operation	band selective duplex	
1 dB Compression	5 W ( + 37 dBm )	5 W ( + 37 dBm )
Linear Output Power	+ 21 dBm @ GSM	24 dBm @ DCS
ICP3	+ 47 dBm typ. min. + 46 dBm @ each bands	
Nominal Gain	70 dB @ each bands	
Gain Ripple	± 1 dB typical ± 3 dB max.	
Gain Setting	70 to 40 dB in 1 dB steps	
Input Noise Figure	5 dB typ.	
Harmonics	According to the ETSI regulation	
Spurious Radiation	According to the ETSI regulation	
Local Leakage	According to the ETSI regulation	
RF Connectors	N – female	
Supply Voltage	230V AC	
Power Consumption	120 VA	
Weight	22 kg	
Operating temperature range	- 20 to + 50 °C	
RS232 control / Remote control	yes / optional	
Application	Outdoor	

(\*) Centre frequency and bandwidth can be specified in the whole GSM & DCS bands.  
Specifications are subject to change without notice.

**OUTLINE DIMENSION (mm):**



**BONN Elektronik**  
RF Systems, Instruments and Components



Rudolf-Diesel-Str.18 • D-85521 Ottobrunn • Tel +49 (0)89/608 754-0 • Fax +49 (0)89/608 754-99  
email: info@bonn-elektronik.com . home: www.bonn-elektronik.com