

## GSM - UMTS DUAL BAND BANDSELECTIVE PICO-REPEATER

- **HIGH SENSITIVITY**
- **HIGH DYNAMIC RANGE**
- **SMALL SIZE**

This dual band pico-repeater is intended for use in GSM & UMTS indoor systems. It is a very compact and lightweight unit and it is especially advantageous to use it inside the buildings, rooms, tunnels 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 is indicated by red and green LED-s.

### Electrical characteristics:

Frequency Band Uplink	890 – 915 MHz @ GSM	1920 – 1980 MHz @UMTS
Frequency Band Downlink	935 – 960 MHz @ GSM	2110 – 2170 MHz @UMTS
Frequency Bandwidth (Up/Downlink)	3 – 30 MHz (*)	
Mode of Operation	band selective duplex	
Linear Output Power	+ 13 dBm @ GSM and + 15 dBm @ UMTS	
ICP3 @ GSM	+ 35 dBm typ. min. + 33 dBm	
Nominal Gain	60 dB @ each band	
Gain Ripple	± 1 dB typical ± 3 dB max.	
Gain Setting	60 to 30 dB in 2 dB steps	
Input Noise Figure	5 dB typ.	
EVM @ UMTS	4 % typ. 12,5 % max.	
PCDE @ UMTS	< -45 dB typ. -35 dB max	
ACRR @ UMTS	40 dB typ. 20 dB min.	
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	with external 230V / DC power supply	
Power Consumption	20 VA	
Weight	1.5 kg	
Operating temperature range	- 10 to + 40 °C	
Application	Indoor	

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

### Outline dimensions (mm):

