

**DCS BANDSELECTIVE
IN-TRAIN REPEATER**

- **1 W ALC POWER LEVEL**
- **HIGH SENSITIVITY**
- **HIGH DYNAMIC RANGE**
- **EDGE COMPATIBLE**

This repeater is intended to use in 1800 MHz in-train DCS systems. It is a compact and reliable unit and it is especially advantageous to provide proper coverage for the passengers who are traveling by train. The adaptive gain function helps to reduce the desensitization of base stations.

RS232 and a LED diode helps locally to supervise the unit. It is a cost effective solution to cover the wagons and can be installed easily and optional can be monitored and set by remote control software.

Electrical characteristics:

| | |
|--|---|
| Frequency Band Uplink | 1710 – 1755 MHz |
| Frequency Band Downlink | 1805 – 1850 MHz |
| Frequency Bandwidth (Up/Downlink) | 45 MHz (*) |
| Mode of Operation | band selective duplex |
| Max ALC level @ Uplink | 2 W @ factory set 27dBm |
| Max ALC level @ Downlink | 1 W @ factory set 25dBm |
| ICP3 Uplink | + 56 dBm typ @ tested 2x24dBm S.C.L. |
| ICP3 Downlink | + 51 dBm typ @ tested 2x20dBm S.C.L. |
| Nominal Gain | 70 dB (**) |
| Gain Ripple | ± 1 dB typical ± 2 dB max. |
| Gain Setting | 70 to 40 dB in 1 dB steps (***) |
| ALC range | > 25 dB typ. |
| Input Noise Figure | < 6 dB typ. @ max gain |
| Harmonics | According to the ETSI regulation < - 30 dBm |
| Spurious Radiation | According to the ETSI regulation < - 30 dBm |
| Local Leakage | According to the ETSI regulation < - 30 dBm |
| Group delay | 5 usec. typ |
| RF Connectors | N – female |
| Supply Voltage | 24 V |
| Power Consumption | 80 W typ. |
| Airflow through chassis | 50 m3 / h |
| Weight | 12 kg |
| Operating temperature range | - 25 to + 50 °C |
| RS232 local control / Remote control / SMS | yes / optional / optional |
| Application | In Train |

(*) Center frequency and bandwidth can be specified in the whole GSM band.

(**) Gain = 80 dB at customer request.

(***) Gain Setting = 80 to 50 dB in 1 dB steps at customer request.

Specifications are subject to change without notice.

