

# GSM-R Protection Filter

## Advanced world class RF-filter

MIC Nordic can now offer a highly advanced and cost efficient RF-filter for applications to solve upcoming interference between GSM-R and WCDMA/LTE 900 MHz systems.

The telecom grade RF-filter is robust and performs with extremely high rejection and low loss. Due to the world class design there is also a very low PIM in the pass-band even on high power levels.



### Additional key features and applications

- > 40 dB rejection on interfering signals
- Low in-band loss (< 0,5-1,0 dB typical)
- IP67 outdoor classification
- High power handling (> 400W)
- CE/RoHS/ETSI compliant
- Comply with EN 50155 relevant parts
- Manage both T2 and T3 (-40°C to +70°C)
- Telecom grade and robust design

Power handling:	> 400 W continuous
Intermodulation (2 x +43 dBm CW signals):	< - 160 dBc (< - 117 dBm)
Impedance:	50 ohm
Smallest size:	330 x 280 x 145 mm
Weight:	14,5 kg
Connectors:	N-female (other connectors are available)

Frequency range MHz	Attenuation (dB)	Insertion Loss (dB)	Return Loss (dB)
0 - 875.0	≥ 40	-	-
873.0 - 880.0	-	≤ 1.8 (typ. ≤ 0.9)	≥ 21
882.0 - 917.0	> 40	-	-
918.0 - 925.0	-	≤ 1.7 (typ. ≤ 0.7)	≥ 21
925.5 - 926.2	≥ 30	-	-
926.2 - 930.0	≥ 40	-	-
930.0 - 2700.0	≥ 55	-	-

The RF-filters can be mounted on trains together with ERMTS or CAB radio as well as on sites together with the radio base stations.

The filter is easily customised upon request and tuned for specific frequencies. Different connector types can be mounted depending on needs. Installation kits and cables are offered to support specific customer requirements.

MIC Nordic is a systems integrator that provides complete solutions, which means services such as the preliminary investigation, design, supply of equipment, project management, commissioning operation and maintenance.

Our core business is the infrastructure for indoor coverage of mobile networks such as FM, TETRA, CDMA 450, GSM, UMTS, LTE and GPS.

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