

Double GSM-R Rejecting Filter

2601.17.0001

Properties

- The Double GSM-R Band Rejecting filter is designed to achieve low insertion loss and high rejection level close to the pass band.
- It prevents the interference between the public mobile network (LTE700 / LTE800 / GSM900 / LTE1800 / UMTS / LTE 2600 / 5G) and GSM-R signal.
- Rugged design, meets EN 50155 Railway Standard
- Fire retardant acc. to EN 45545-2
- IP54 Rated



Port definition (stop/pass)

Port designation	Interface	Gender	Impedance
Mod 1	N	jack (female)	50 Ω
Ant 1	N	jack (female)	50 Ω
Mod 2	N	jack (female)	50 Ω
Ant 2	N	jack (female)	50 Ω

Electrical bands

	Pass Band	Pass Band	Pass Band	Pass Band
Frequency range	703 MHz ... 803 MHz	790 MHz ... 862 MHz	890 MHz ... 910 MHz	935 MHz ... 960 MHz
Insertion loss	≤ 0.3 dB	≤ 0.7 dB	≤ 0.9 dB	≤ 1 dB
Return loss	≥ 16 dB	≥ 12 dB	≥ 12 dB	≥ 16 dB

	Pass Band	Pass Band	Pass Band	Pass Band
Frequency range	1710 MHz ... 1880 MHz	1900 MHz ... 2200 MHz	2500 MHz ... 2690 MHz	3400 MHz ... 3800 MHz
Insertion loss	≤ 0.5 dB	≤ 0.5 dB	≤ 0.55 dB	≤ 0.8 dB
Return loss	≥ 16 dB	≥ 16 dB	≥ 14 dB	≥ 12 dB

Electrical bands

Composit power max	50 W
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Electrical data (rejection)	
Band	Rejection
Stop Band	Min. 50 dB @ 873 MHz ... 880 MHz
Stop Band	Min. 50 dB @ 918 MHz ... 925 MHz

Mechanical data	
Weight	4 kg
Width	251 mm
Height	72 mm
Depth	96 mm
Housing material and surface treatment	Aluminium / Black paint
Remarks	Dimensions are including Bolts, Excluding Connectors, Bracket

Environmental data	
Environment (application)	Indoor/Outdoor
Operation temperature	-25 °C ... 70 °C

Ordering Information Table	
Item number	Item description
85172747	2601.17.0001

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