



GSM-R DUPLEXER RACK MOUNTING SX

876 ÷ 890 / 921 ÷ 925 MHz

T06210947

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POLOMARCONI offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

RAILWAYS AND
TRANSPORT

Electrical Specifications

Impedance (Ω)	50
Isolation (dB)	≥ 70
Max. Continuous Power (dBm) at any port	40
Operating Temp. Range ($^{\circ}\text{C}$)	$-25 \div +70$

Up-Link (TX) Section

Frequency Band (MHz)	876 ÷ 890
Insertion Loss (dB)	≤ 1.3 (typical : 0.7)
Return Loss (dB)	≥ 18 (typical : 20)
Rejection (dB) of the RX section	≥ 70

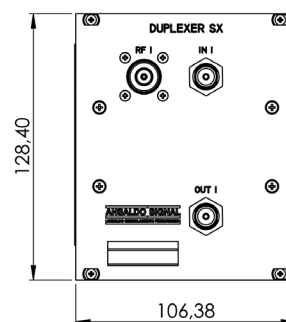
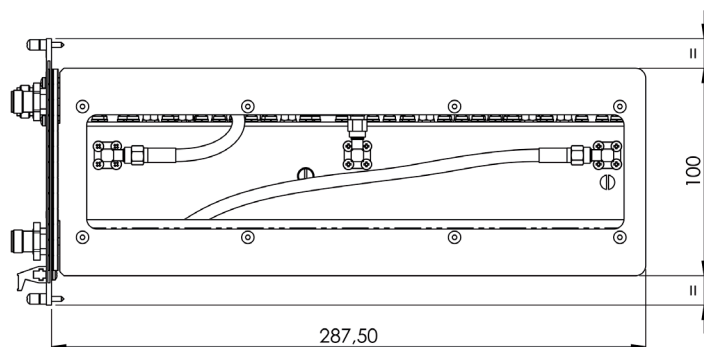
Down-Link (RX) Section

Frequency Band (MHz)	921 ÷ 925
Insertion Loss (dB)	Max: ≤ 3 (typical : 2.6)
Return Loss (dB)	≥ 15 (typical : 20)
Rejection (dB) @ 926.5 MHz	≥ 30



Mechanical Specifications

Antenna connector (RF2)	N female
Down-link RX connector (OUT2)	TNC female
Up-link TX connector (IN2)	TNC female
Dimensions (mm)	287.50 × 106.38 × 128.40
Weight (kg)	< 2.3
Material	Aluminium alloy
Finishing	Silver plating
Vibrations	CEI EN61373 cat.1 class B
MTBF (years)	34



Dimensions (mm)



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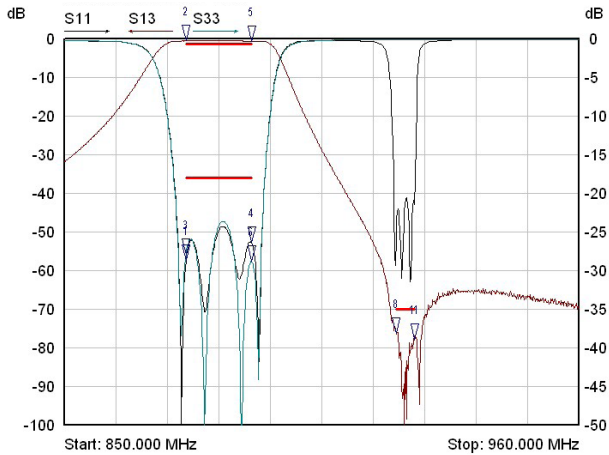
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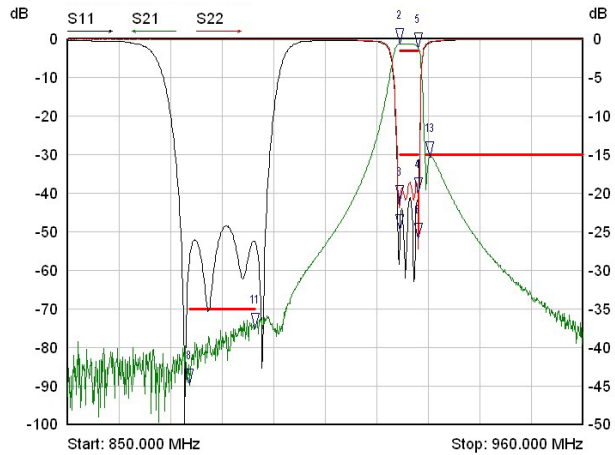
RAILWAYS AND
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UPLINK TX



Mkr	Trace	X-Axis	Value	Notes
1	S11	876.000 MHz	-28.600 dB	>= 18 dB
2	S13	876.000 MHz	-0.412 dB	<= 1.3 dB
3	S33	876.000 MHz	-27.837 dB	>= 18 dB
4	S11	890.000 MHz	-26.258 dB	>= 18 dB
5	S13	890.000 MHz	-0.450 dB	<= 1.3 dB
6	S33	890.000 MHz	-28.760 dB	>= 18 dB
8	S13	921.000 MHz	-76.204 dB	>= 70 dB
11	S13	925.000 MHz	-77.657 dB	>= 70 dB

DOWNLINK RX



Mkr	Trace	X-Axis	Value	Notes
1	S11	921.000 MHz	-24.792 dB	>= 15 dB
2	S21	921.000 MHz	-1.229 dB	<= 3.0 dB
3	S22	921.000 MHz	-20.965 dB	>= 15 dB
4	S11	925.000 MHz	-19.950 dB	>= 15 dB
5	S21	925.000 MHz	-2.316 dB	<= 3.0 dB
6	S22	925.000 MHz	-25.797 dB	>= 15 dB
8	S21	876.000 MHz	-89.511 dB	>= 70 dB
11	S21	890.000 MHz	-75.109 dB	>= 70 dB
13	S21	927.413 MHz	-30.475 dB	>= 30 dB