

Two-TETRA-Station Combiner

DESCRIPTION

- The PRO-ISO-PHY-TETRA-S2-REV combiner provides the possibility of connecting up to two TETRA radios into one common antenna.
- The PRO-ISO-PHY-TETRA-S2-REV models are available in the frequency range 380 - 470 MHz (on request).
- All PRO-ISO-PHY units are designed for single carrier signal per port and thus it is not recommended to add a multiple carrier signal on the input ports, as this could potentially create unwanted intermodulation products transmitted on the antenna port and reflected on the input ports.
- ETSI compliant connection of two digital radios.
- The PRO-ISO-PHY-TETRA-S2-REV is the successor to the PRO-ISO-PHY-TETRA-2-REV.
- The PRO-ISO-PHY-TETRA-S2-REV has improved isolation between the ports more than 60 dB - and lower insertion loss.
- The use of high-quality system components such as highly selective helical duplex filters and high-performance isolators provides high isolation and secure communication.
- The smallest and most compact design on the market.
- Suitable for both stationary and mobile use.
- Also available in tray for 19" rack mounting.
- Vibration and shock tested in accordance with EN-60068**.



**Tested in accordance with:

Random test: EN 60068-2-64, test specification: EN 300 019-2-5 V3.0.0.

Shock test: EN 60068-2-27, test specification: EN 300 019-2-5 V3.0.0.

Bump test: EN 60068-2-29, test specification: EN 300 019-2-5 V3.0.0.

SPECIFICATIONS

Electrical	
Model	PRO-ISO-PHY-TETRA-S2-REV
Frequency	Rx : 380 - 385 MHz / Tx : 390 - 395 MHz or Rx : 410 - 415 MHz / Tx : 420 - 425 MHz
Max. Input Power	25 W per port
Insertion Loss Tx-Ant.	< 6.0 dB
Insertion Loss Rx-Ant.	< 6.0 dB
Isolation TRx - TRx	Tx - Tx : > 60 dB Rx - Rx : > 60 dB Tx - Rx / Rx - Tx : > 60 dB
VSWR	< 1.5:1
Group Delay Variation	Tx-ANT. < 200 nsec. Rx-ANT. < 200 nsec.
No. of channels	2
Mechanical	
Connection(s)	N(f)
Colour	Black
Dimensions	150 (excl. conn.) x 150 x 35 mm / 5.91 (excl. conn.) x 5.91 x 1.38 in.
Weight	Approx. 1.82 kg / 4.01 lb.
Environmental	
Ingress Protection	IP62

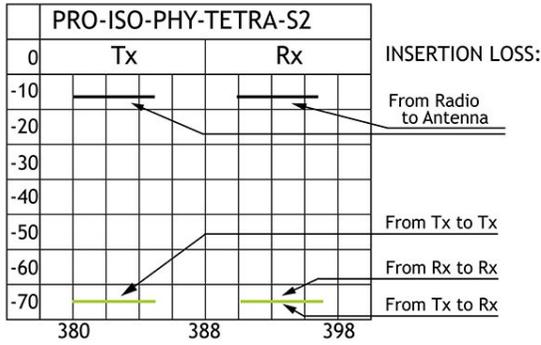
ORDERING

Model	Product No.	Frequency
PRO-ISO-PHY-385/390-S2-REV-N(f)	210002253	380 - 385 MHz / 390 - 395 MHz
PRO-ISO-PHY-415/420-S2-REV-N(f)	210002540	410 - 415 MHz / 420 - 425 MHz
Accessories		
19" Front plate with connectors in front *	210002247	
19" Front plate with connectors in back *	210002248	

NOTE

* The front plates are delivered in a separate packaging with extra screws for mounting on the combiner.

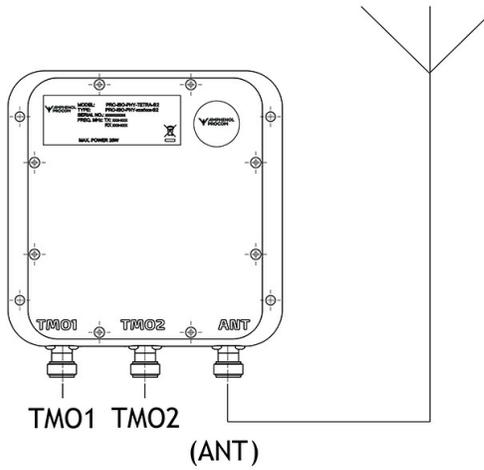
TYPICAL ATTENUATION VALUES



19" FRONT PLATE WITH CONNECTORS IN FRONT (210002247)



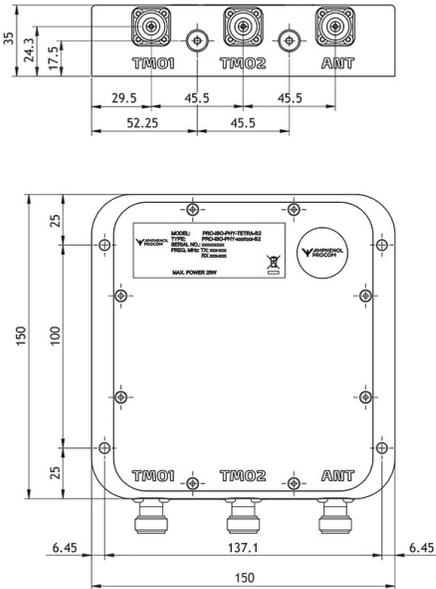
CONNECTION DIAGRAM



19" FRONT PLATE WITH CONNECTORS IN BACK (210002248)



MOUNTING DETAILS



All dimensions are given in mm [in.]