



PRO-COM450-2SI

Compact 2-channel UHF/LTE 450 MHz Tx/Rx Combiner



DESCRIPTION

- An integrated single tray combining solution housing a 2-channel Tx hybrid combiner, duplex filter, active Rx multicouplers and preselector.
- Built-in power supply suitable for 12 V DC
- Minimal rack space required – only 3 HU in a 19" rack.
- Compatible with digital 6.25 kHz channel spacing.
- Single Tx isolators fitted as standard (With Dual Isolators, please ask for availability).
- 2 Tx & 2 Rx ports as standard.
- Please specify Tx/Rx frequencies when ordering.
- Please Note: Power Supply AC to DC is not included, must be ordered separately, see Accessories.
- As standard the combiner will come with black painted front plate. If requested, please ask for a front plate with alu-look.

SPECIFICATION

Electrical	
Model	PRO-COM450-2SI
Frequency	L : 380 – 400 MHz H : 406 – 470 MHz
Max. Input Power	35 W / 50 W (per channel)
Spacing Tx-Rx	≥ 5 MHz
Spacing Tx-Tx	≤ 2 MHz
Insertion Loss Tx Path	≤ 5.4 dB
Impedance	50 Ω
Ant-Tx Isolation	> 40 dB @ 25 °C
Isolation Tx-Tx	> 70 dB @ 25 °C
Isolation Tx – Rx	> 85 dB for Tx – Tx spacing < 0.5 MHz > 65 dB for Tx – Tx spacing > 0.5 MHz
Isolation Rx-Rx	> 20 dB
VSWR	$< 1.5:1$
LNA Noise Figure	< 3.5 dB
Current Consumption	500 mA @ 12 V DC
Gain Rx	1 dB $\pm$ 1 dB (factory set)

No. of channels	2
Environmental	
Storage temperature range	-30 °C to +60 °C
Mechanical	
Connection(s)	N(f)
Historic Brand	Amphenol Procom
Dimensions	19" x 3 HU (483 x 132.55 mm) / 19 x 5.22 in. – see Mechanical Outline for depth of tray
Weight	Approx. 6.3 kg / 13.9 lb.

ORDERING CODES

Model	Product No.
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ADDITIONAL INFORMATION

Ordering Designations

Contact for system-specific product No.

Use the guide below to make the name of the PRO-COM450-2SI. Remember to buy the Power Adaptor separately if needed.

Model	Duplex Filter Freq. Band	Pre-selector Rx Freq. Band	Duplex filter Bandwidth (BW) and Tx/Rx Spacing	Max. Input Power
PRO-COM450-2SI	Low : 340 – 400 MHz = L High : 406 – 470 MHz = H	380 – 440 MHz = L 430 – 470 MHz = H	2-5/7-2 * 2-7/9-2 2-9/13-2 2-13/16-2 * Max. Low BW: 2 MHz- Tx/Rx spacing: 5 to 7 MHz – Max. High BW: 2 MHz = 2-5/7-2	35 W per channel 50 W per channel
Naming Example				
PRO-COM450-2SI	H	H	/2-5/7-2	/35W

Naming Example: PRO-COM450-2SI HH/2-5/7-2/35W

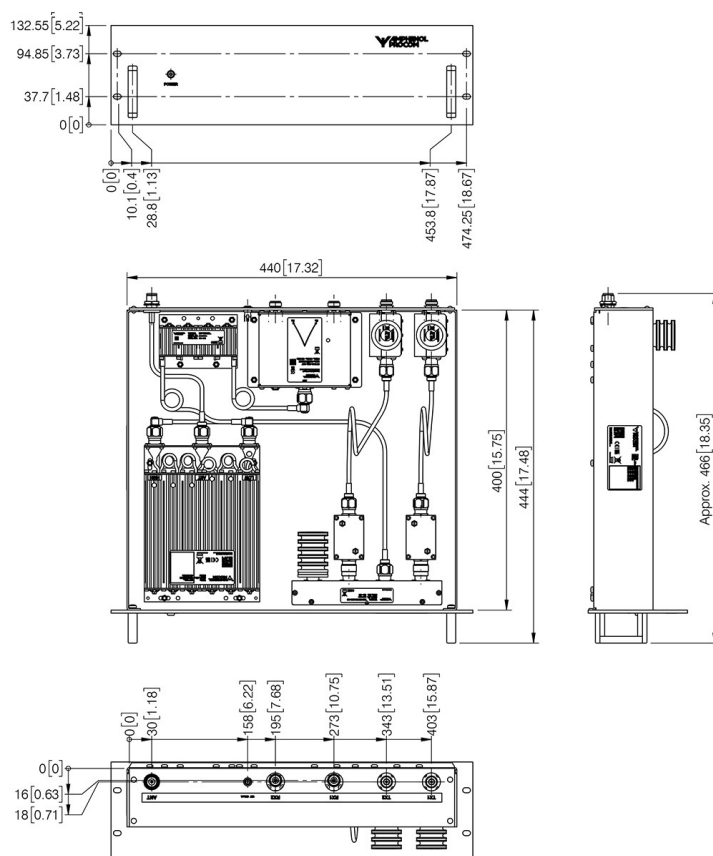
Accessories

Model	Product No.
Power Supply AC/DC 12V/1A EU/UK/US	240000060

Power Supply AC/DC 12V/1A EU/UK/US



Mechanical Outline



All dimensions are given in mm [in.]

EU and UK Declaration of Conformity

Hereby Amphenol Procom declare that the product type PRO-COM450-2SI is in compliance with EU Directive 2014/53/EU and the UK Radio Equipment Regulations 2017 (S.I. 2017 No. 1206).

The full text of the Declaration of Conformity is available at:

<https://s3.us-west-2.amazonaws.com/catsy.1080/Declaration-of-Conformity-PRO-COM450.pdf>

