

Ultra Compact 450 MHz Tx/Rx Combiner System 4-channel 2 HU 19" single tray

DESCRIPTION

- > An integrated single tray combining solution housing a 4-channel hybrid Tx hybridcombiner, duplex filter, active 4-channel Rx multicouplers and preselector.
- > Minimal 19" rack space required - only 2 HU.
- > Built-in power supply 115/230 VAC.
- > Compatible with digital 6.25 kHz channel spacing.
- > Single Tx isolators fitted as standard.
- > Please specify all Tx/Rx frequencies when ordering.

- > Please Note:
Power cable is not included, must be ordered separately, see Accessories.

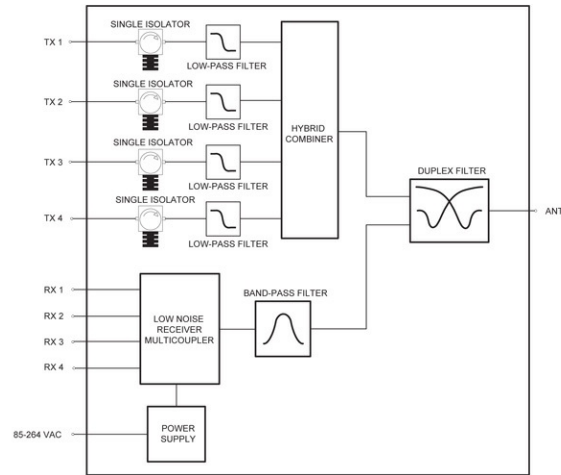


SPECIFICATIONS

Electrical	
Model	PRO-HDAR450-4 ...
Frequency	l : 340 - 400 MHz h : 406 - 470 MHz
Max. Input Power	50 W (per channel)
Max. Tx-Tx Spacing, Δ Tx	2 MHz
Min. Tx-Rx Spacing	5 MHz
Isolation Rx on Frequency Tx	Tx - Tx spacing < 0.5 MHz : > 85 dB Tx - Tx spacing > 0.5 MHz : > 65 dB
Insertion Loss Tx Path	< 8.0 dB
Impedance	50 Ω
Ant-Tx Isolation	> 40 dB @ 25 °C
Gain	Rx PATH : 1 dB ±1 dB (factory set)
Isolation Rx-Rx	> 20 dB
Isolation Tx-Tx	> 70 dB
VSWR	≤ 1.5:1
Isolation Tx on Frequency Rx	Rx - Rx spacing < 0.5 MHz : > 85 dB Rx - Rx spacing > 0.5 MHz : > 65 dB
LNA Noise Figure	< 3.5 dB
No. of channels	4
Power Supply	
Voltage	85 - 264 VAC
Frequency	47 - 63 Hz
AC current (typ.)	0.35 A / 115 VAC 0.25 A / 230 VAC

Mechanical	
Connection(s)	N(f)
Dimensions	19" x 2 HU 483 x 89.9 mm 19.02 x 3.54 in. - see drawing for depth of tray
Weight	Approx. 10.8 kg / 23.81 lb.
Environmental	
Operating Temperature Range	-30 °C to +60 °C

BLOCK DIAGRAM



ORDERING DESIGNATIONS

CONTACT FOR SYSTEM-SPECIFIC PRODUCT NO.

Use the guide below to make the name of the PRO-HDAR450-4 you would like to buy. Remember to buy the Power Adaptor separately if needed.

Model	Combiner Freq. Band	Rx frequencies	Duplex filter Bandwidth (BW) and Tx/Rx Spacing	Hybrid Tx frequencies
PRO-HDAR450-4	Low : 340 - 400 MHz = L High : 406 - 470 MHz = H	406 - 440 MHz = L 440 - 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	380 - 400 MHz = TETRA 400 - 405 MHz = 1 404 - 409 MHz = 2 408 - 413 MHz = 3 412 - 417 MHz = 4 416 - 421 MHz = 5 420 - 425 MHz = 6 424 - 429 MHz = 7 428 - 433 MHz = 8 432 - 437 MHz = 9 436 - 441 MHz = 10 440 - 445 MHz = 11 444 - 449 MHz = 12 448 - 453 MHz = 13 452 - 457 MHz = 14 456 - 461 MHz = 15 458 - 463 MHz = 16 462 - 467 MHz = 17 466 - 471 MHz = 18 470 - 475 MHz = 19

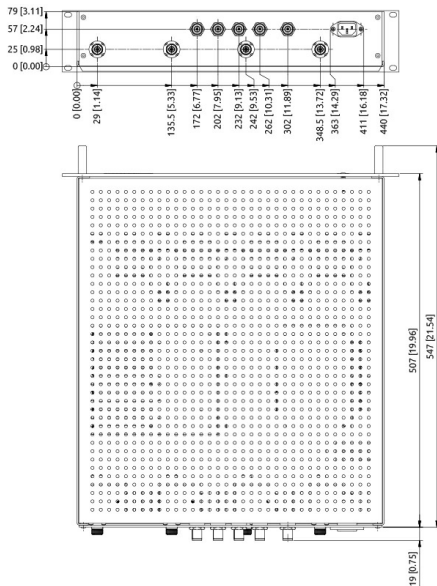
Naming Example				
PRO-HDAR450-4	H	H	/2-5/7-2/	7

Naming Example: PRO-HDAR450-4 HH/2-5/7-2/7

ACCESSORIES

Model	Product No.
Power Cable EU , with Ground	210002646
Power Cable UK , with Ground	210002647
Power Cable US , with Ground	210002648

MOUNTING DETAILS



All dimensions are given in mm [in.]

EU AND UK DECLARATION OF CONFORMITY

Hereby Amphenol Procom declare that the product type PRO-HDAR450-4 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://amphenolprocom.com/images/shop/catalog/pdf-for-catalogues/Declaration-of-Conformity-PRO-HDAR-2HU.pdf>