

# HUBER+SUHNER® DATA SHEET

## Hybrid Matrix Combiner / Divider 698 MHz 960 MHz:

### 7408.17.0001



Rev.: F

## Hybrid Coupler

### Description

The 4x4 Hybrid is a matrix of four 3 dB Hybrid Couplers arranged so that signals applied to any of the four inputs will be split equally between the four outputs. This allows simple combining of multiple signals in the same wireless band to a common feeder cable, as might be required in a neutral host in-building distributed antenna system, or the decoupled combining of 4 transmitter or receiver signals equally to 4 antennas. Unused output ports must be terminated externally in 50 Ohm with an appropriate PIM performance. Special attention has been directed to maximize isolation in the wireless bands and minimize passive intermodulation. Supports GSM, CDMA, LTE, AMPS



## Product Configuration

### Technical Data

#### Electrical Data

#### Band 1

Frequency (GHz)	0.698 - 0.96
Return Loss	23 dB
Coupling	6 dB
Insertion Loss	6.2 dB
Insertion Loss flatness +/-	0.6 dB
Isol. between Input ports	28 dB
Isol. between Output ports	28 dB
Composite Power max	100 W
Peak Envelope Power	3000 W
Intermodulation distortion @ 2 x Carrier Power	-155 dBc 43 dBm

	Input 1	Input 2	Input 3	Input 4
Port Designation	J1	J2	J3	J4
Connector Type	N	N	N	N
Gender	jack (female)	jack (female)	jack (female)	jack (female)
	Ouput 1	Ouput 2	Output 3	Output 4
Port Designation				
Connector Type	N	N	N	N
Gender	jack (female)	jack (female)	jack (female)	jack (female)
Char. impedance (Ω)	50			

#### Mechanical Data

Dimensions (mm) 34 x 94 x 220.68 (Height x Width x Length)

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

**WAIVER!**  
It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.



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Weight 1.5 kg

### Environmental Data

Environmental conditions	indoor/outdoor
Operation temperature (°C)	-40 to 55
Storage temperature (°C)	-40 to 55
Transport temperature (°C)	-40 to 55
IP rating	IP 64
RoHS 2002/95/EC	compliant
Lead-free soldered	yes

### Material Data

Housing Material	Aluminium
Surface treatment	passivated

### Related Documents

Mounting instruction	
Painting instruction	
Security instruction	
Outline drawing1	DPR-00172069
3D-model (Step)	DOC-0000370146

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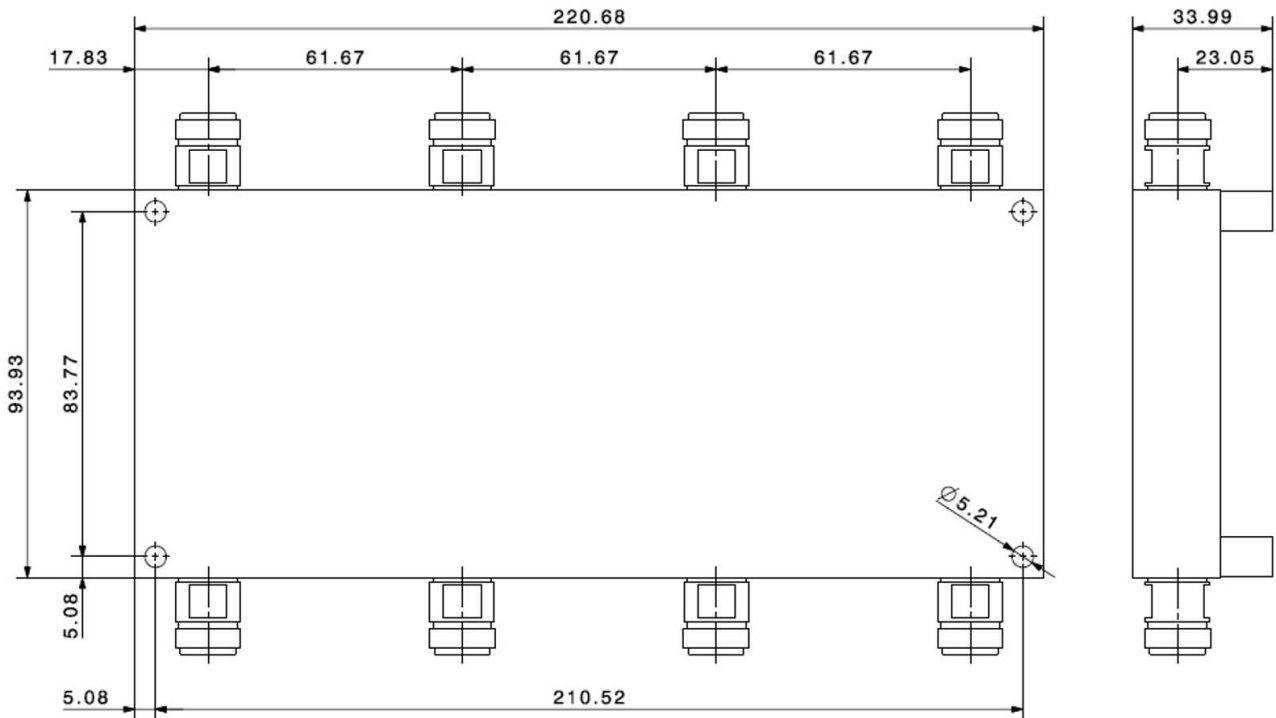
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