

# HUBER+SUHNER® DATA SHEET

## Wide Band, Low PIM Coupler from 700 - 2,700 MHz: 7404.17.0003



Rev.: G

### Hybrid Coupler

#### Description

This Hybrid Coupler has been designed to meet the special needs of the wireless market. They are most commonly used to combine two wireless carriers in the band to a single antenna feed or distribution cable. This requires the termination of one output port in 50 Ohm and results in a 3 dB loss in each signal. In situations where two similar feeds are required, as required for an in-building application, both outputs may be used eliminating the need for a termination and the 3 dB loss. Isolation is maximized while passive intermodulation (PIM) is minimized. Supports LMR/P25, LTE, UMTS / WCDMA, CDMA, GSM, AMPS and PCS.



### Product Configuration

#### Technical Data

##### Electrical Data

	<b>Band 1</b>	
Frequency (GHz)	0.698 - 2.7	
Return Loss	20 dB	
Coupling	3 dB	
Insertion Loss	3.2 dB	
Insertion Loss flatness +/-	0.4 dB	
Isol. between Input ports	30 dB	
Isol. between Output ports	30 dB	
Composite Power max	160 W	
Peak Envelope Power	1500 W	
Intermodulation distortion @ 2 x Carrier Power	-150 dBc 43 dBm	
	Input 1	Input 2
Port Designation	J1	J2
Connector Type	N	N
Gender	jack (female)	jack (female)
	Output 1	Output 2
Port Designation	J3	J4
Connector Type	N	N
Gender	jack (female)	jack (female)
Char. impedance ( $\Omega$ )	50	
<b>Mechanical Data</b>		
Dimensions (mm)	25 x 44 x 132 (Height x Width x Length)	
Weight	0.644 kg	

##### Environmental Data

Environmental conditions

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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Operation temperature (°C)	-35 to 65
Storage temperature (°C)	-35 to 65
Transport temperature (°C)	-35 to 65
IP rating	IP 64

#### Material Data

Housing Material	Aluminium
Surface treatment	passivated

#### Related Documents

Mounting instruction	
Painting instruction	
Security instruction	
Outline drawing1	DOU-00124089
3D-model (Step)	DOC-0000370157

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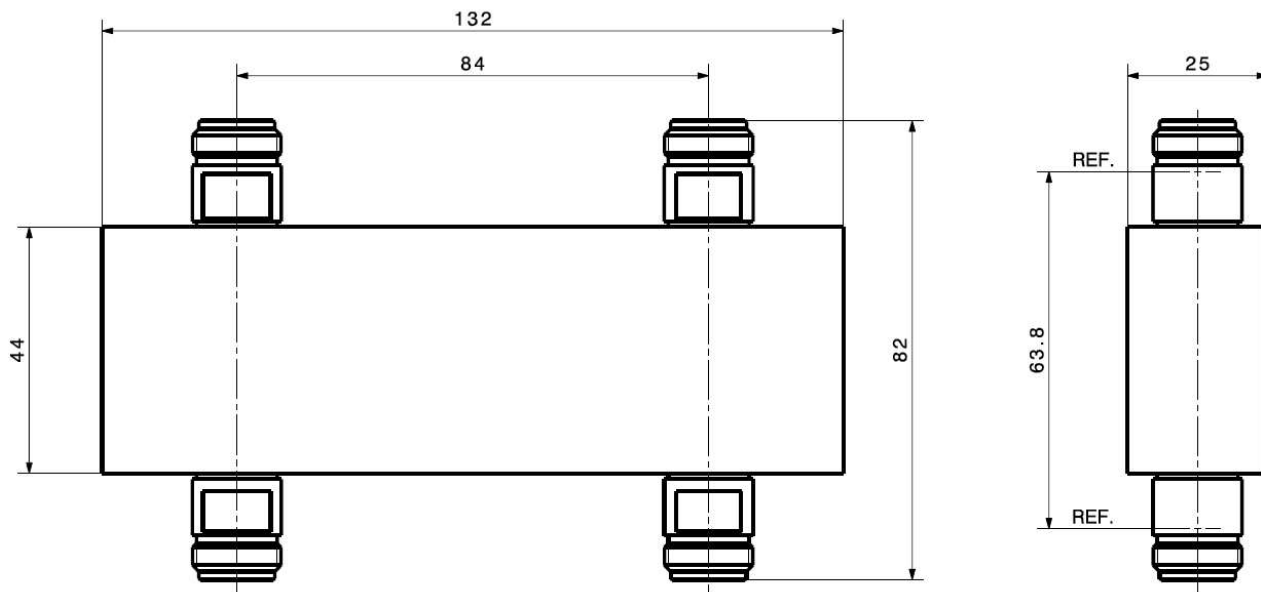
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