

## Hybrid Coupler Unit RKE-4x3-588P-6G-S1

MTS-No.: 27642

### Application

This Hybrid Coupler Unit type RKE-4x3-588P-6G-S1 has been especially developed for a frequency range of 400 MHz up to 6000 MHz. They cover for example TETRA, GSM, DECT, UMTS, Bluetooth, WiMAX, Wi-Fi (2.4G / 5G) and all LTE frequency bands.

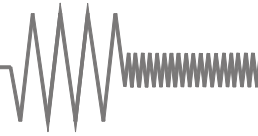
### Description

This Hybrid Coupler Unit with 8 inputs and 8 outputs is equipped with 4x 3 dB Hybrid Coupler to get this configuration of inputs and outputs.



### Characteristics

- ▶ Frequency range from 400 MHz to 6000 MHz
- ▶ 4 groups each with 2 inputs and 2 outputs
- ▶ 47 dBm max. sum for each group
- ▶ 19" rack mount case with 1 HU
- ▶ High quality materials and components for extended durability
- ▶ Hybrid Coupler Units can be designed according to customer's individual requirements



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### Configuration:

4 groups each with 2 input leading to 2 outputs (8 inputs, 8 outputs)

### Technical data:

#### 1 RF-specifications:

1.1 Impedance	50 Ω		
1.2 Input power for each group	47 dBm max. sum		
1.3 Frequency range	400 MHz - 6000 MHz		
1.4 RF-connections	N female		
	<b>min.</b>	<b>typ.</b>	<b>max.</b>
1.5 VSWR (at all ports)			
@ 400 - 4500 MHz		1.1	1.25
@ 4500 - 5850 MHz		1.2	1.45
@ 5850 - 6000 MHz		1.4	1.65
1.6 Insertion loss plus Coupling			
@ 400 MHz	2.5 dB		3.8 dB
@ 6000 MHz	4.8 dB		6.5 dB
1.7 Isolation (see plot)			
@ 400 – 4000 MHz	24 dB	33 dB	
@ 4000 – 5400 MHz	21 dB	25 dB	
@ 5400 – 6000 MHz	15 dB	21 dB	
1.8 Amplitude balance		±0.5 dB	±1.0 dB
1.9 Phase balance (90°)		±2.0°	±8.0°

#### 2 Connections:

2.1 Front side	RF-connections of the inputs RF-connections of the outputs
2.2 Rear side	-

#### 3 General specifications:

3.1 Operating temperature	0 °C - +50 °C
3.2 Reference temperature for specifications	+25 °C
3.3 Dimensions	19"-unit x 1 HU x 253 mm (dimensions without handles and connections)
3.4 Colour	Front side colourless anodized Rear side colourless anodized
3.5 Weight	4.2 kg

#### 4 Delivered parts:

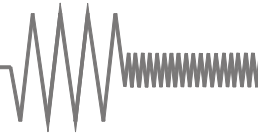
RKE-4x3-588P-6G-S1  
CD with operating manual

#### 5 Comments:

Warranty	12 months
RoHS-compliant	Yes

#### 6 Recommended accessories:

RF-cables  
Terminations  
Attenuators series PAH



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## Views:

