

## 2x2, 3 dB hybrid coupler 7404.17.0003

### 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.



#### Technical Data

##### Electrical Data

	Band 1
Frequency	0.698 - 2.7 GHz
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
Max. Composite Power	160 W
Peak Envelope Power	1500 W
Intermodulation distortion	-150 dBc
@ 2 x Carrier Power	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 50 Ω

##### Mechanical Data

Dimensions 25 x 44 x 132 mm (Height x Width x Length)  
 Weight 0.644 kg

##### Environmental Data

Environmental conditions indoor  
 Operation temperature -35 °C to 65 °C  
 Storage temperature -35 °C to 65 °C  
 Transport temperature -35 °C to 65 °C  
 IP rating IP64  
 RoHS 2011/65/EU compliant

##### Material Data

Housing Material Aluminium  
 Surface treatment passivated

##### Related Documents

Outline drawing DOU-00124089  
 3D-model (Step) DOC-0000370157

# Data Sheet

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