

## 2x2, 3 dB hybrid coupler 7404.17.0003

### Hybrid Coupler

#### Description

This hybrid coupler allows the combination of signals in very close frequency bands. If both outputs cannot be used to feed for example two antennas, the free port must be closed on a termination (PIM load or termination for the 3dB power dissipation). The hybrid coupler is according to the EN 50155: 2007 (class T1).



#### Technical Data

##### Electrical Data

|                            | Band 1          |
|----------------------------|-----------------|
| Frequency                  | 0.694 - 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 Power/input port       | 80 W            |
| Peak Envelope Power        | 1500 W          |
| Intermodulation distortion | -161 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            |
| 2011/65/EU (RoHS - including 2015/863 and 2017/2102) | compliant       |

##### Material Data

|                   |            |
|-------------------|------------|
| Housing Material  | Aluminium  |
| Surface treatment | passivated |

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### Related Documents

Outline drawing

DOU-00124089

