# Data Sheet

HUBER+SUHNER

## 10 dB directional coupler
## 7210.31.0003

## Directional Coupler

## Description

This Directional Coupler is designed to cover the frequency range from 694 to 2700 MHz. It directs a defined fraction of signal with minimal reflections or loss from the mail line to a coupled line. Available with different values of coupling. It benefits form the excellent PIM performances and compact size of the newly developped interface 4.3-10.

## Technical Data

### Electrical Data

| | | Band 1 |
|---|---|---|
| Frequency | | 0.694 - 2.7 GHz |
| Return loss | | 19 dB |
| Coupling | | 10 dB |
| Coupling flatness | +/- | 1 dB |
| Coupling loss | | 0.45 dB |
| Dissipative loss | | 0.25 dB |
| Directivity | | 20 dB |
| Max. composite power | | 200 W |
| Peak envelope power | | 1000 W |
| Intermodulation distortion | | -161 dBc |
| @ 2 x carrier power | | 43 dBm |

| | Main Line In | Main Line Out | Coupled Port |
|---|---|---|---|
| Port Designation | IN | OUT | -10 dB |
| Connector Type | 4.3-10 | 4.3-10 | 4.3-10 |
| Gender | jack (female) | jack (female) | jack (female) |

| | |
|---|---|
| Char. impedance | 50 Ω |

### Mechanical Data

| | |
|---|---|
| Dimensions | 42 x 123 x 25 mm (Heigth x Width x Depth) |
| Weight | 0.48 kg |

### Environmental Data

| | |
|---|---|
| Environmental conditions | outdoor |
| Operation temperature | -40 °C to 85 °C |
| Storage temperature | -40 °C to 85 °C |
| Transport temperature | -40 °C to 85 °C |
| IP rating | IP67 |
| 2011/65/EU (RoHS - including 2015/863 and 2017/2102) | compliant |

### Material Data

| | |
|---|---|
| Housing Material | Aluminium |
| Surface treatment | Black paint |

### Related Documents

| | |
|---|---|
| Outline drawing | DOU-00319173 |

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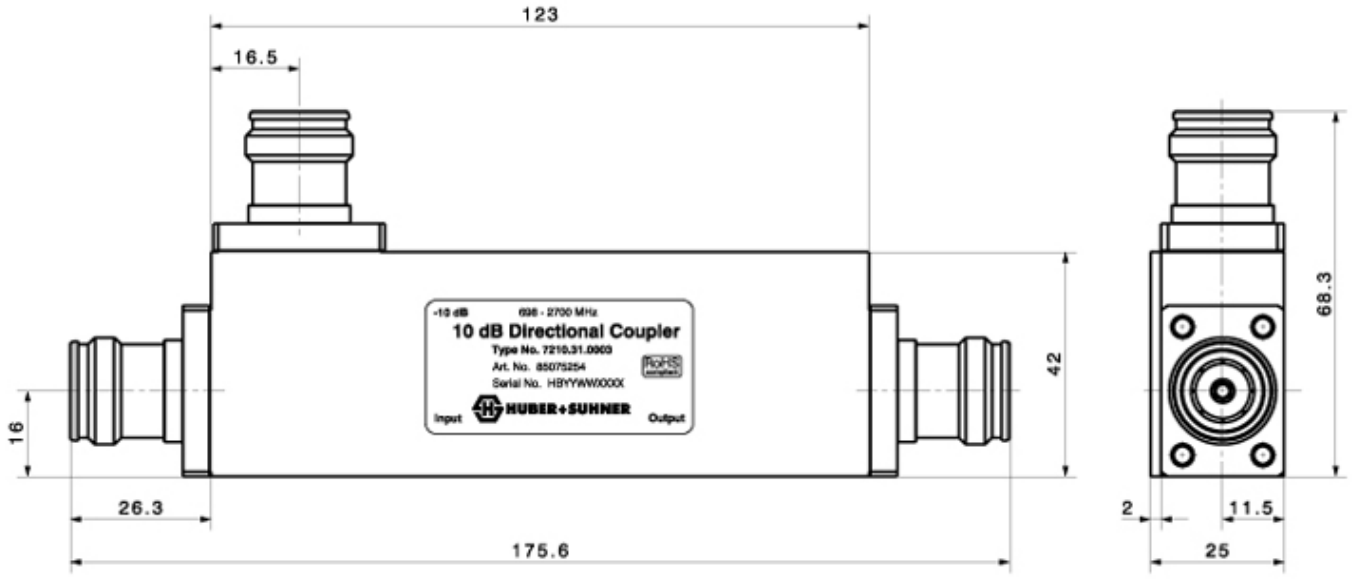


„dimensions in mm“




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