

## 20 dB directional coupler 7220.31.0004

### 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 main line to a coupled line. Available with different values of coupling. It benefits from the excellent PIM performances and compact size of the newly developed interface 4.3-10.



#### Technical Data

##### Electrical Data

	Band 1
Frequency	0.694 - 2.7 GHz
Return loss	19 dB
Coupling	20 dB
Coupling flatness	+/- 1 dB
Coupling loss	0.04 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	-20 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 47 x 123 x 25 mm (Height x Width x Depth)  
Weight 0.48 kg

##### Environmental Data

Environmental conditions indoor/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-00319208

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