

15 dB directional coupler 7215.17.0010

Directional Coupler

Description

Directional Couplers is a tapered stripline design covering from 698 to 2700 MHz. Units couple off a defined fraction of signal with minimal reflections or loss. Availability in a wide range of coupling values makes this series useful in optimizing the power distribution required in passive in-building distributed antenna systems (DAS). The extremely wide frequency range allows use with multiband antennas and leaky cable systems and wireless base stations. With minimal solder joints and a low loss dielectric, the dissipative loss has been minimized and reliability enhanced.



Technical Data

Electrical Data

	Band 1
Frequency	0.698 - 2.7 GHz
Return loss	19 dB
Coupling	15 dB
Coupling flatness	+/- 1 dB
Coupling loss	0.14 dB
Dissipative loss	0.25 dB
Directivity	20 dB
Max. composite power	300 W
Peak envelope power	1000 W
Intermodulation distortion	-150 dBc
@ 2 x carrier power	43 dBm

	Main Line In	Main Line Out	Coupled Port
Port Designation	Input	Output	-15 dB
Connector Type	N	N	N
Gender	jack (female)	jack (female)	jack (female)

Char. impedance 50 Ω

Value given for directivity is typical. Power may be limited by feeding into poorly matched loads overloading the termination.

Mechanical Data

Dimensions 22 x 47 x 117 mm (Height x Width x Depth)
Weight 0.3 kg

Environmental Data

Environmental conditions indoor
Operation temperature -35 °C to 85 °C
Storage temperature -35 °C to 85 °C
Transport temperature -35 °C to 85 °C
IP rating IP65
RoHS 2011/65/EU compliant

Surface treatment Black paint

Related Documents

Outline drawing DOU-00287765
3D-model (Step) DOC-0000687950

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