

ADC-xx-WBS-LP-DF-CC

Directional Coupler | 380-2700 MHz | 7/16-DIN Female



All models are available in iBwave Designer Version 6.0 and higher

Ordering Options	3 dB Coupler	4.8 dB Coupler	6 dB Coupler	10 dB Coupler
Model Number (xx)	ADC-03-WBS-LP-DF-CC	ADC-048-WBS-LP-DF-CC	ADC-06-WBS-LP-DF-CC	ADC-10-WBS-LP-DF-CC
				

Electrical Characteristics

Frequency Range	380-2700 MHz	380-2700 MHz	380-2700 MHz	380-2700 MHz
Coupling	3 dB	4.8 dB	6 dB	10 dB
Coupling Tolerance	±1.2 dB	±1.2 dB	±1.2 dB	±1.2 dB
Insertion Loss	≤ 3.6 dB	≤ 2.15 dB	≤ 1.7 dB	≤ 0.7 dB
Directivity	≥ 20 dB	≥ 20 dB	≥ 20 dB	≥ 20 dB
Isolation	≥ 23 dB	≥ 25 dB	≥ 26 dB	≥ 30 dB
VSWR	≤ 1.25	≤ 1.25	≤ 1.25	≤ 1.25
Average Power (max)	500 W	500 W	500 W	500 W
Peak Power (max)	1.5 kW	1.5 kW	1.5 kW	1.5 kW
PIM3 (2x43 dBm)	≤ -153 dBc	≤ -153 dBc	≤ -153 dBc	≤ -153 dBc
Impedance	50Ω	50Ω	50Ω	50Ω

Mechanical Characteristics

Plating	Inner Contact	Silver	Silver	Silver	Silver
	Outer Trimetal	Trimetal	Trimetal	Trimetal	Trimetal
Connector	7/16-DIN Female	7/16-DIN Female	7/16-DIN Female	7/16-DIN Female	
Weight	0.88 kg (1.9 lbs)	0.88 kg (1.9 lbs)	0.88 kg (1.9 lbs)	0.88 kg (1.9 lbs)	
Color	Black	Black	Black	Black	

Environmental Characteristics

Operating Temperature	-35° to +70° C (-31° to +158° F)	-35° to +70° C (-31° to +158° F)	-35° to +70° C (-31° to +158° F)	-35° to +70° C (-31° to +158° F)
Relative Humidity	Up to 95%	Up to 95%	Up to 95%	Up to 95%
RoHs Compliant	yes	yes	yes	yes
Application	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor
Ingress Protection	IP65	IP65	IP65	IP65

Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

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Ordering Options	13 dB Coupler	15 dB Coupler	20 dB Coupler	30 dB Coupler
Model Number (xx)	ADC-13-WBS-LP-DF-CC	ADC-15-WBS-LP-DF-CC	ADC-20-WBS-LP-DF-CC	ADC-30-WBS-LP-DF-CC
				

Electrical Characteristics

Frequency Range	380-2700 MHz	380-2700 MHz	380-2700 MHz	380-2700 MHz
Coupling	13 dB	15 dB	20 dB	30 dB
Coupling Tolerance	±1.2 dB	±1.2 dB	±1.2 dB	±1.2 dB
Insertion Loss	≤ 0.7 dB	≤ 0.4 dB	≤ 0.2 dB	≤ 0.2 dB
Directivity	≥ 20 dB	≥ 20 dB	≥ 20 dB	≥ 20 dB
Isolation	≥ 30 dB	≥ 35 dB	≥ 40 dB	≥ 50 dB
VSWR	≤ 1.25	≤ 1.25	≤ 1.25	≤ 1.25
Average Power (max)	500 W	500 W	500 W	500 W
Peak Power (max)	1.5 kW	1.5 kW	1.5 kW	1.5 kW
PIM3 (2x43 dBm)	≤ -153 dBc	≤ -153 dBc	≤ -153 dBc	≤ -153 dBc
Impedance	50Ω	50Ω	50Ω	50Ω

Mechanical Characteristics

Plating	Inner Contact	Silver	Silver	Silver	Silver
	Outer Trimetal	Trimetal	Trimetal	Trimetal	Trimetal
Connector	7/16-DIN Female	7/16-DIN Female	7/16-DIN Female	7/16-DIN Female	
Weight	0.88 kg (1.9 lbs)	0.88 kg (1.9 lbs)	0.88 kg (1.9 lbs)	0.88 kg (1.9 lbs)	
Color	Black	Black	Black	Black	

Environmental Characteristics

Operating Temperature	-35° to +70° C (-31° to +158° F)	-35° to +70° C (-31° to +158° F)	-35° to +70° C (-31° to +158° F)	-35° to +70° C (-31° to +158° F)
Relative Humidity	Up to 95%	Up to 95%	Up to 95%	Up to 95%
RoHs Compliant	yes	yes	yes	yes
Application	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor
Ingress Protection	IP65	IP65	IP65	IP65

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