




ADC-xx-WBS-LP-NF-CC

Directional Coupler | 380-2700 MHz | N-Type Female



All models are available in iBwave Designer Version 6.0 and higher

| Ordering Options | 3 dB Coupler | 6 dB Coupler | 10 dB Coupler |
|-------------------|---|--|---|
| Model Number (xx) | ADC-03-WBS-LP-NF-CC | ADC-06-WBS-LP-NF-CC | ADC-10-WBS-LP-NF-CC |
| |  |  |  |

Electrical Characteristics

| | | | |
|---------------------|--------------|--------------|--------------|
| Frequency Range | 380-2700 MHz | 380-2700 MHz | 380-2700 MHz |
| Coupling | 3 dB | 6 dB | 10 dB |
| Coupling Tolerance | ±1.2 dB | ±1.2 dB | ±1.2 dB |
| Insertion Loss | ≤ 3.6 dB | ≤ 1.7 dB | ≤ 0.7 dB |
| Directivity | ≥ 20 dB | ≥ 20 dB | ≥ 20 dB |
| Isolation | ≥ 23 dB | ≥ 26 dB | ≥ 30 dB |
| VSWR | ≤ 1.25 | ≤ 1.25 | ≤ 1.25 |
| Average Power (max) | 300 W | 300 W | 300 W |
| Peak Power (max) | 1.5 kW | 1.5 kW | 1.5 kW |
| PIM3 (2x43 dBm) | ≤ -153 dBc | ≤ -153 dBc | ≤ -153 dBc |
| Impedance | 50Ω | 50Ω | 50Ω |

Mechanical Characteristics

| | | | | |
|-----------|-------------------|-------------------|-------------------|----------|
| Plating | Inner Contact | Silver | Silver | Silver |
| | Outer Trimetal | Trimetal | Trimetal | Trimetal |
| Connector | N-Type Female | N-Type Female | N-Type Female | |
| Weight | 0.52 kg (1.1 lbs) | 0.52 kg (1.1 lbs) | 0.52 kg (1.1 lbs) | |
| Color | Black | Black | Black | |




Environmental Characteristics

| | | | |
|-----------------------|----------------------------------|----------------------------------|----------------------------------|
| Operating Temperature | -35° to +70° C (-31° to +158° F) | -30° to +75° C (-22° to +167° F) | -35° to +70° C (-31° to +158° F) |
| Relative Humidity | Up to 95% | Up to 95% | Up to 95% |
| RoHs Compliant | yes | yes | yes |
| Application | Indoor / Outdoor | Indoor / Outdoor | Indoor / Outdoor |
| Ingress Protection | 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 | 15 dB Coupler | 20 dB Coupler | 30 dB Coupler |
|-------------------|---|--|---|
| Model Number (xx) | ADC-15-WBS-LP-NF-CC | ADC-20-WBS-LP-NF-CC | ADC-30-WBS-LP-NF-CC |
| |  |  |  |

Electrical Characteristics

| | | | |
|---------------------|--------------|--------------|--------------|
| Frequency Range | 380-2700 MHz | 380-2700 MHz | 380-2700 MHz |
| Coupling | 15 dB | 20 dB | 30 dB |
| Coupling Tolerance | ±1.2 dB | ±1.2 dB | ±1.2 dB |
| Insertion Loss | ≤ 0.4 dB | ≤ 0.2 dB | ≤ 0.2 dB |
| Directivity | ≥ 20 dB | ≥ 20 dB | ≥ 20 dB |
| Isolation | ≥ 35 dB | ≥ 40 dB | ≥ 50 dB |
| VSWR | ≤ 1.25 | ≤ 1.25 | ≤ 1.25 |
| Average Power (max) | 300 W | 300 W | 300 W |
| Peak Power (max) | 1.5 kW | 1.5 kW | 1.5 kW |
| PIM3 (2x43 dBm) | ≤ -153 dBc | ≤ -153 dBc | ≤ -153 dBc |
| Impedance | 50Ω | 50Ω | 50Ω |

Mechanical Characteristics

| | | | | |
|-----------|----------------|-------------------|-------------------|-------------------|
| Plating | Inner Contact | Silver | Silver | Silver |
| | Outer Trimetal | Trimetal | Trimetal | Trimetal |
| Connector | | N-Type Female | N-Type Female | N-Type Female |
| Weight | | 0.52 kg (1.1 lbs) | 0.52 kg (1.1 lbs) | 0.52 kg (1.1 lbs) |
| Color | | Black | Black | Black |

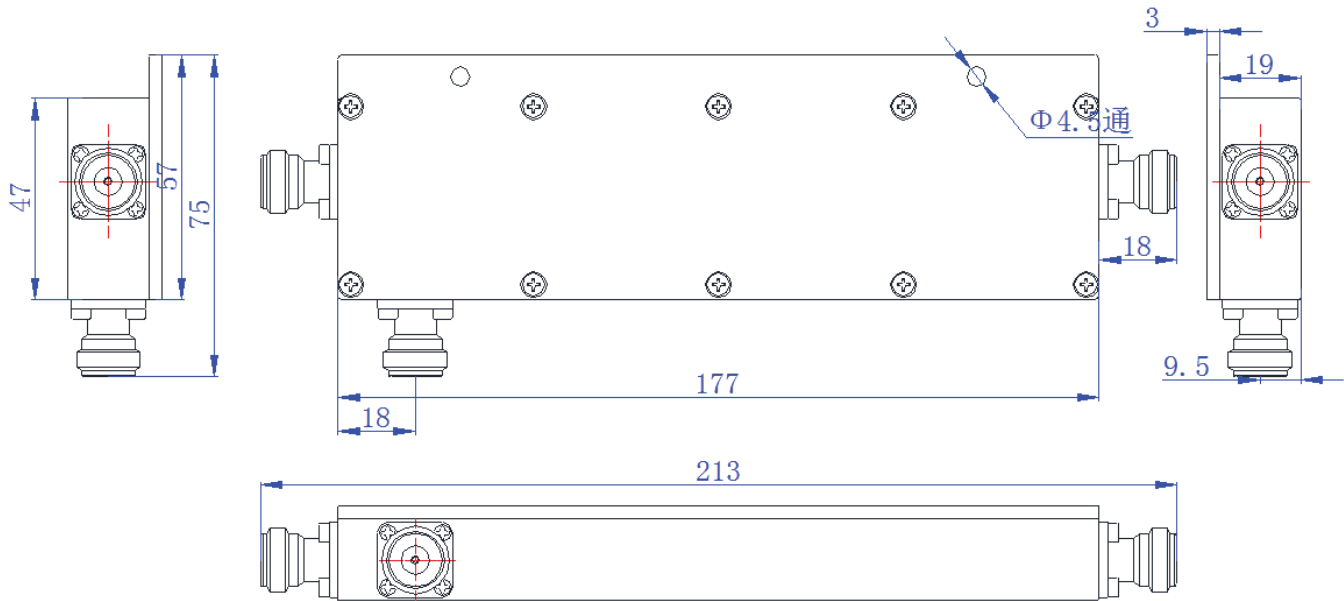
Environmental Characteristics

| | | | |
|-----------------------|----------------------------------|----------------------------------|----------------------------------|
| 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) |
| Relative Humidity | Up to 95% | Up to 95% | Up to 95% |
| RoHs Compliant | yes | yes | yes |
| Application | Indoor / Outdoor | Indoor / Outdoor | Indoor / Outdoor |
| Ingress Protection | IP65 | IP65 | IP65 |

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