

## DAS Directional Coupler

### PRODUCT OVERVIEW

AWS DAS Directional Couplers deliver ultra-wide operational bandwidth and high directivity. Used in many distributed antenna systems, these directional couplers can be used for power monitoring, isolation of signal sources, signal sampling and as antenna feeds.



AWS 6 dB DAS Directional Coupler

The couplers are performance-optimized for carrier signals in the 694 - 3600 MHz band. Configurations offered include fixed ratio splits of 3, 6, 10, 15, 20 and 30 dB.

Our DAS Directional Couplers offer excellent signal performance, mechanical reliability and meet IP 67 standards for environmental durability in outdoor installations. Connectors include N, 7/16 DIN, and 4.3-10 formats.

### Key Features

- 694-3600 MHz Band
- High Output Port-to-Coupled Port Directivity
- Low Insertion Loss
- Rated to 200 Watts
- High Reliability
- ROHS Compliant
- N, 7/16 DIN, 4.3-10 Connectors

### Specifications

DAS Directional Coupler Specifications						
Connector Type	Part Number - By Connector Type					
N Connector	HPDC3-N-69435	HPDC6-N-69436	HPDC10-N-69436	HPDC15-N-69436	HPDC20-N-69436	HPDC30-N-69436
7/16 DIN Connector	HPDC3-D-69435	HPDC6-D-69436	HPDC10-D-69436	HPDC15-D-69436	HPDC20-D-69436	HPDC30-D-69436
4.3-10 Connector	HPDC3-B-69435	HPDC6-B-69436	HPDC10-B-69436	HPDC15-B-69436	HPDC20-B-69436	HPDC30-B-69436
Specification						
Coupling Nominal	3dB	6dB	10dB	15dB	20dB	30dB
Frequency Bands:						
694-2500 MHz	±0.75 dB	±0.75 dB	±1.0 dB	+1.2/-0.8 dB	±1.0 dB	±1.0 dB
2500-3600 MHz	±0.9 dB	±0.9 dB	±1.0 dB	+1.2/-0.8 dB	±1.0 dB	±1.2 dB
Coupled Loss	3.01 dB	1.26 dB	0.45 dB	0.14 dB	0.04 dB	0.01 dB
Dissipative Loss	<0.30 dB	<0.30 dB	<0.30 dB	<0.30 dB	<0.30 dB	<0.30 dB
VSWR	1.20:1 max., 694-2500 MHz; 1.25:1 max., 2500-3300 MHz; 1.40:1 max., 3300-3600 MHz					
PIM (Passive Intermodulation)	-161 dBc typical (2 tones at +43 dBm)					
Power Rating:	200W avg., 1.5 kW Peak †					
Directivity	20 dB min., 694-2500 MHz, 18 dB min., 2500-3300 MHz; 16 dB min., 3300-3600 MHz					
Impedance:	50Ω nominal					
Environment:	IP67					
Temperature Range:	0°C to +50°C, below 0°C coupling is maintained but directivity degrades					
Connectors: Body/Finish	Brass/Trimetal					
Housing Finish:	Passivated Aluminum					
Weight, Nom:	24 oz (670 g) - 26 oz (750 g)					
Mounting:	Bracket supplied					