

Ultra Wideband Directional Coupler

DC-HSxxAI

Low PIM(-161dBc), 555-6000MHz, 4.3-10-Female, 200W

- Wideband design covering 555-6000MHz
- 2G/3G/4G LTE network and CBRS, C-Band, sub-6GHz for 5G
- Available in 5, 6, 7, 8, 10, 13, 15 & 20dB values
- Suitable for indoor/outdoor environment
- High reliability and low insertion loss



Electrical Specification

Product Model	DC-HS05AI	DC-HS06AI	DC-HS07AI	DC-HS08AI	DC-HS10AI	DC-HS13AI	DC-HS15AI	DC-HS20AI
Frequency (MHz)	555-6000							
Coupling (dB)	5.0	6.0	7.0	8.0	10.0	13.0	15.0	20.0
Coupling Tolerance (dB)	± 1.2	± 1.2	± 1.2	± 1.3	± 1.5	± 1.5	± 1.5	± 1.5
Insertion Loss (dB)	≤ 2.5	≤ 1.9	≤ 1.6	≤ 1.2	≤ 0.9	≤ 0.6	≤ 0.5	≤ 0.3
Directivity (dB)	≥ 18							
VSWR @ all ports	≤ 1.25 @ 555-3800MHz, ≤ 1.3 @ 3800-6000MHz							
PIM (dBc)	≤ -161 @ 2 x 43dBm							
Reflection Power, max (W)	35	40	50	65	100	200	200	200
Average Power, max (W)	200							
Peak Power, max (W)	1000							
Impedance (ohm)	50							

Mechanical Specification

Dimension (in/mm)	4.8x1.7x1.1 / 123x44x28
Weight (lb/kg)	0.9 / 0.4
Shipping Dimension (in/mm)	7.1x3.2x1.8 / 180x80x45
Shipping Weight (lb/kg)	1.0 / 0.45
Connector	4.3-10 Female

Environment & Compliance

Application	Indoor / Outdoor
Operating Temperature	-35°C to +85°C
Environment	IP65
Relative Humidity	Up to 100%
RoHS	Compliant

Outline Drawing

Unit: inches[mm]

