

Wideband Directional Coupler

DC-RUxx-OD500C, DC-RUxx-OA500C

xx=05, 06, 07, 10, 15, 20, 30, 40, preconfigured coupling value
698-3800MHz, DIN-Female/4.3-10 Female, 500W

Electrical Specifications

Parameters	DC-RU05-OD500C DC-RU05-OA500C	DC-RU06-OD500C DC-RU06-OA500C	DC-RU07- OD500C DC-RU07-OA500C	DC-RU10- OD500C DC-RU10-OA500C
Frequency Range (MHz)	698-3800			
Coupling Value (dB)	5	6	7	10
Coupling Tolerance (dB)	±0.8	±0.8	±0.9	±1.0
Main Line Loss (dB)	≤2.1	≤1.7	≤1.4	≤1.0
Isolation (dB)	≥23	≥24	≥25	≥28
Input Port VSWR	≤1.25			
Intermodulation Products (dBc)	≤-155@2x43dBm			
Input Average Power, Maximum (W)	500			
Peak Power, Maximum (W)	1500			
Impedance (Ω)	50			

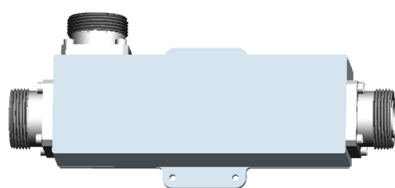
Electrical Specifications

Parameters	DC-RU15- OD500C DC-RU15-OA500C	DC-RU20- OD500C DC-RU20-OA500C	DC-RU30- OD500C DC-RU30-OA500C	DC-RU40- OD500C DC-RU40- OA500C
Frequency Range (MHz)	698-3800			
Coupling Value (dB)	15	20	30	40
Coupling Tolerance (dB)	±1.0	±1.2	±1.5	±1.8
Main Line Loss (dB)	≤0.5	≤0.2		
Isolation (dB)	≥33	≥38	≥48	≥ 55
Input Port VSWR	≤1.25			
Intermodulation Products (dBc)	≤-155@2x43dBm			
Input Average Power, Maximum (W)	500			
Peak Power, Maximum (W)	1500			
Impedance (Ω)	50			

Mechanical Specifications

Models	DC-RUxx- OD500C	DC-RUxx- OA500C
Dimensions, LxWxH (excluding connectors) (mm) / (in)	136x44x30 / 5.4x1.7x1.2	
Weight (kg) / (lb)	0.78 / 1.71	0.55 / 1.21
Connector Type	DIN-Female	4.3-10 Female
Operational Temperature (°C)	-30 to +55	
Operational Humidity (%)	≤95	
Shipping Dimensions, HxWxD (mm) / (in)	185x82x45 / 7.3x3.2x1.8	
Shipping Weight (kg) / (lb)	0.83 / 1.83	0.60 / 1.32
Environmental Class	IP65	

Photo & Outline Drawing



Din Connector for reference

