

Wideband Directional Coupler

DC-RUxx-ON300C

xx=05, 06, 07, 10, 15, 20, 30, 40, preconfigured coupling value

698-3800MHz, N-Female, 300W

Electrical Specifications

Parameters	DC-RU05-ON300C	DC-RU06-ON300C	DC-RU07-ON300C	DC-RU10-ON300C
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	≤1.5	≤1.0
Isolation (dB)	≥23	≥24	≥25	≥28
Input Port VSWR	≤1.25			
Intermodulation Products (dBc)	≤-155@2x43dBm			
Input Average Power, Maximum (W)	300			
Peak Power, Maximum (W)	1200			
Impedance (Ω)	50			

Electrical Specifications

Parameters	DC-RU15-ON300C	DC-RU20-ON300C	DC-RU30-ON300C	DC-RU40-ON300C
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)	300			
Peak Power, Maximum (W)	1200			
Impedance (Ω)	50			

Mechanical Specifications

Dimensions, LxWxH (excluding connectors) (mm) / (in)	136×44×22 / 5.4×1.7×0.9
Weight (kg) / (lb)	0.43 / 0.95
Connector Type	N-Female
Operational Temperature (°C)	-30 to +55
Operational Humidity (%)	≤95
Shipping Dimensions, HxWxD (mm) / (in)	190×80×30 / 7.5×3.1×1.2
Shipping Weight (kg) / (lb)	0.45 / 0.99
Environmental Class	IP65

Photo & Outline Drawing

