

Wideband Directional Coupler

DC-Rxx-OA500C(XH)

xx=05, 06, 07, 08, 10, 13, 15, 20, 30, 40 preconfigured coupling value

698-2700MHz, 4.3-10 Female, 500W

Electrical Specifications

Parameters	DC-R05-OA500C(XH)	DC-R06-OA500C(XH)	DC-R07-OA500C(XH)	DC-R08-OA500C(XH)	DC-R10-OA500C(XH)
Frequency Range (MHz)	698-2700				
Coupling Value (dB)	5	6	7	8	10
Coupling Tolerance (dB)	±0.8	±0.8	±0.8	±0.8	±0.8
Main Line Loss (dB)	≤2.1	≤1.7	≤1.4	≤1.2	≤0.7
Isolation (dB)	≥25	≥26	≥27	≥28	≥30
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-R13-OA500C(XH)	DC-R15-OA500C(XH)	DC-R20-OA500C(XH)	DC-R30-OA500C(XH)	DC-R40-OA500C(XH)
Frequency Range (MHz)	698-2700				
Coupling Value (dB)	13	15	20	30	40
Coupling Tolerance (dB)	±1	±1	±1.2	±1.5	±1.5
Main Line Loss (dB)	≤0.5	≤0.4	≤0.3	≤0.2	≤0.2
Isolation (dB)	≥33	≥35	≥40	≥45	≥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

Dimensions, LxWxH (excluding connectors) (mm) / (in)	122x48x29.4 / 4.8x1.9x1.2
Weight (kg) / (lb)	0.5 / 1.2
Connector Type	4.3-10 Female
Operational Temperature (°C)	-40 to +60
Operational Humidity (%)	≤95
Shipping Dimensions, HxWxD (mm) / (in)	180x90x60 / 7.1x3.5x2.4
Shipping Weight (kg) / (lb)	0.57 / 1.3
Environmental Class	IP65

Photo & Outline Drawing

