Directional Coupler



Somefly's DC-7038-XX-43F directional coupler design is rated for a minimum frequency of 698 MHz and a maximum frequency of 3800 MHz. Units couple off a defined fraction of signal with minimal reflections or loss. Availability in a wide range of coupling values makes this series useful in optimizing the signal\ distribution required in passive distributor radio access network(D-RAN). The extremely wide frequency range allows use with multiband antennas, leaky cable systems and wireless base stations. With minimal solder joints and a low loss dielectric, the dissipative loss has been minimized and reliability enhanced.



Frequency: 698 to 3800 MHz VSWR: 1.3:1 PIM: -155 dBc (@2x +43 dBm) Power: 300 W avg., 1 kW pk* Impedance: 50Ω Environment: -35°C to +70°C, Housing Finish: Black or Gray Connectors: 4.3/10 Female Weight, nom: 520gra

Part Number	Coupling nom. dB	Frequency Sensitivity dB	Isolation dB	Coupled Loss, max dB
DC-7038-05-43F	5	±0.8	≥24	2.10
DC-7038-06-43F	6	±0.8	≥25	1.70
DC-7038-08-43F	8	±1.0	≥26	1.21
DC-7038-10-43F	10	±1.0	≥29	0.90
DC-7038-15-43F	15	±1.1	≥34	0.44
DC-7038-20-43F	20	±1.2	≥39	0.34
DC-7038-30-43F	30	±1.5	≥41	0.31



