



## **DIRECTIONAL COUPLERS**

CSG330050DC-XX series, Directional Couplers are strip line design for use in Indoor Signal coverage of UHF / TETRA applications in 300 - 500 MHz, These units couple off a defined fraction say 6, 10, 15, 20, 30 dB of mainline signal with minimal reflections or loss. These couplers are ideally suited for in-building passive Distributed Antenna Systems DAS, and leaky cable systems for UHF wireless services.

### Electrical Specifications:

Model	CSG330050DC-06	CSG330050DCX-10	CSG330050DCX-15	CSG330050DCX-20	CSG330050DC-30
Frequency Band	300 – 500 MHz				
Coupling Level	6±0.5 dB	10±0.8 dB	15±1 dB	20±1 dB	30±1 dB
Insertion Loss	≤ 1.8 dB	≤ 0.8 dB	≤ 0.7 dB	≤ 0.5 dB	≤ 0.2 dB
Isolation	≥ 20 dB	≥ 28 dB	≥ 32 dB	≥ 35 dB	≥ 30 dB
VSWR	≤ 1.30 : 1	≤ 1.25 : 1	≤ 1.25 : 1	≤ 1.25 : 1	≤ 1.40 : 1
Impedance	50 Ω				
Power Capacity	≤ 50 Watt	≤ 100 Watt	≤ 100 Watt	≤ 100 Watt	≤ 50 Watt
Connector	N(F)				
Dimension (Approx.)	165 x 50 x 16 mm	179 x 55 x 19 mm			165 x 55 x 20 mm
Weight (Approx.)	250 gms	300 gms			250 gms
Relative Humidity	5% - 95%				
Operating Temperature	-40 °C to + 60 °C	-35 °C to + 70 °C			-40 °C to + 60 °C

## Product Pictures:





# DIRECTIONAL COUPLERS

## Model: CSG330050DC-30

**CSG33050DC-XX** series, Directional Couplers are strip line design for use in Indoor Signal coverage of UHF / TETRA applications in 300 - 500 MHz, These units couple off a defined fraction say 6, 10, 15, 20,30 dB of mainline signal with minimal reflections or loss. These couplers are ideally suited for in-building passive Distributed Antenna Systems DAS, and leaky cable systems for UHF wireless services

PARAMETER	SPECIFICATIONS
Frequency Band	300 ~ 500 MHz
Coupling Level	30 dB
Insertion Loss	$\leq 0.2$ dB
Isolation	$\geq 30$ dB
VSWR	$\leq 1.40 : 1$
Impedance	50 $\Omega$
Power Capacity	50 Watt
Connector	N(F)
Dimension (Apporx.)	165 x 55 x 20 mm (with Connector)
Weight (Apporx.)	250 gms
Relative Humidity	5 - 95%
Operating Temperature	-40 $^{\circ}$ C ~ + 60 $^{\circ}$ C

