

# Wideband Directional Coupler

## DC-FRxx-ON300C(I)

Low PIM(-161dBc), 340-2700MHz, N Female, 300W

- Wideband design covering 340-2700MHz  
- Public Safety Band (UHF & 700/800MHz), up to 2.7GHz
- Available in 5, 6, 10, & 13dB values
- Suitable for indoor/outdoor environment
- High reliability and low insertion loss



### Electrical Specification

Product Model	DC-FR05-ON300C(I)	DC-FR06-ON300C(I)	DC-FR10-ON300C(I)	DC-FR13-ON300C(I)
Frequency (MHz)	340-2700			
Coupling (dB)	5.0	6.0	10.0	13.0
Coupling Tolerance (dB)				
@340-550MHz	± 1.3	± 1.3	± 1.5	± 1.5
@550-2700MHz	± 1.0	± 1.0	± 1.2	± 1.3
Insertion Loss (dB)	≤ 2.4	≤ 1.9	≤ 0.8	≤ 0.5
Directivity (dB)	20			
VSWR @ all ports	≤ 1.25			
PIM (dBc)	≤ -161 @ 2 x 43dBm			
Reflection Power, max (W)	35	40	100	200
Average Power, max (W)	300			
Peak Power, max (W)	1000			
Impedance (ohm)	50			

### Mechanical Specification

Dimension (in/mm)	8.41x2.57x0.87 / 213.7x65.3x22.0
Weight (lb/kg)	1.04 / 0.47
Connector	N Female

### Environment & Compliance

Application	Indoor / Outdoor
Operating Temperature	-35°C to +85°C
Environment	IP65
Relative Humidity	Up to 100%
RoHS	Compliant

### Outline Drawing

