

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, 7, 8, 10, 13, 15 & 20dB values
- Suitable for indoor/outdoor environment
- High reliability and low insertion loss



Electrical Specification

Product Model	DC-FR05-ON 300C(I)	DC-FR06-ON 300C(I)	DC-FR07-ON 300C(I)	DC-FR08-ON 300C(I)	DC-FR10-ON 300C(I)	DC-FR13-ON 300C(I)	DC-FR15-ON 300C(I)	DC-FR20-ON 300C(I)
Frequency (MHz)	340-2700							
Coupling (dB)	5.0	6.0	7.0	8.0	10.0	13.0	15.0	20.0
Coupling Tolerance (dB)								
@340-550MHz	± 1.3	± 1.3	± 1.3	± 1.5	± 1.5	± 1.5	± 1.5	± 1.7
@550-2700MHz	± 1.0	± 1.0	± 1.0	± 1.2	± 1.2	± 1.3	± 1.3	± 1.4
Insertion Loss (dB)	≤ 2.4	≤ 1.9	≤ 1.6	≤ 1.2	≤ 0.8	≤ 0.5	≤ 0.4	≤ 0.3
Directivity (dB)	20							
VSWR @ all ports	≤ 1.25							
PIM (dBc)	≤ -161 @ 2 x 43dBm							
Reflection Power, max (W)	35	40	50	70	100	200	200	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

