

# Wideband Directional Coupler

## DC-Exx-ON200L(XH)

Low PIM(-153dBc), 138-960MHz, N-Female, 200W

- Wideband design covering 138-960MHz  
Public Safety band (VHF & UHF & 700/800MHz)
- Available in 5, 6, 7, 8, 10, 13, 15 and 20dB values
- Suitable for indoor/outdoor environment
- High reliability and low insertion loss



### Electrical Specification

Product Model	DC-E05-ON200L(XH)	DC-E06-ON200L(XH)	DC-E07-ON200L(XH)	DC-E08-ON200L(XH)	DC-E10-ON200L(XH)	DC-E13-ON200L(XH)	DC-E15-ON200L(XH)	DC-E20-ON200L(XH)
Frequency (MHz)	138-960							
Coupling (dB)	5.0	6.0	7.0	8.0	10.0	13.0	15.0	20.0
Coupling Tolerance (dB)								
138-340MHz	± 1.5	± 1.5	± 1.5	± 1.5	± 1.5	± 1.7	± 1.7	± 1.7
340-960MHz	± 1.0	± 1.0	± 1.0	± 1.0	± 1.2	± 1.2	± 1.3	± 1.3
Insertion Loss (dB)	≤ 2.6	≤ 1.9	≤ 1.7	≤ 1.4	≤ 1.2	≤ 0.9	≤ 0.6	≤ 0.5
Directivity (dB)	≥ 18							
VSWR @ all ports	≤ 1.25 @555-3800MHz, ≤ 1.3 @3800-6000MHz							
PIM (dBc)	≤ -153 @ 2 x 43dBm							
Reflection Power, max (W)	35	40	50	65	100	200	200	200
Average Power, max (W)	200							
Peak Power, max (W)	1000							
Impedance (ohm)	50							

### Mechanical Specification

Dimension (in/mm)	9.57x1.39x0.87 / 243.1x35.2x22.0
Weight (lb./kg)	1.23 / 0.56
Shipping Dimension (in/mm)	12.4x3.03x1.57 / 315.0x77.0x40.0
Shipping Weight (lb./kg)	1.43 / 0.61
Connector	N-Female

### Environment & Compliance

Application	Indoor / Outdoor
Operating Temperature	-35°C to +85°C
Environment	IP65
Relative Humidity	Up to 95%
RoHS	Compliant

### Outline Drawing

