

0.15m | 0.5ft Flat Panel Antenna, Dual-Polarized, 5.15-5.85GHz

**FPD.5-5-18V2**



The RadioWaves high performance flat panel antenna FPD.5-5-18v2 is engineered for superior performance and designed for rugged environments with a low profile, aesthetically pleasing design. Measuring 10" x 10" this antenna is extremely compact and toughened to stand up to all environments.

The FPD.5-5-18v2 has 18 dBi gain, 17° Horizontal Beamwidth and 17° Vertical Beamwidth patterns with Vertical + Horizontal polarization and features 2 x Type N Female connectors. The 5150-5850 MHz FPD.5-5-18v2 is rugged and weatherproof and features a heavy-duty UV-resistant plastic radome for all-weather operation.

The FPD.5-5-18v2 is ideal for Point-to-Point applications in WLAN, public safety and UNII applications. The 2 x Type N Female connectorized FPD.5-5-18v2 antenna includes mounting bracket and hardware for ease of installation.

**Features**

- Dual polarity feed system in single enclosure
- Includes tilt and swivel mast mounting
- Two integral N-Female connectors
- UV-resistant radome for all-weather operation
- MIMO - Multiple-Input and Multiple-Output

**Applications**

- 5.3 GHz, 5.4 GHz and 5.8 GHz band applications
- IEEE 802.11a Wireless LAN
- 5.8GHz UNII and ISM applications
- Unlicensed European 5.4 GHz band applications
- WiMAX technology
- Wi-Fi systems
- 5.8 GHz wireless video systems

**SPECIFICATIONS**

**General**

Antenna Type	Flat Panel Antenna
Size, nominal	0.5 ft   0.15 m

Polarization	Dual
Standard RF Connector Type	N-Female

## Electrical

Operating Frequency Band	5.15 - 5.85 GHz
Half Power Beamwidth, Horizontal	17 degrees
Half Power Beamwidth, Vertical	17 degrees
Front to Back Ratio (F/B)	30 dB

Gain, Mid Frequency	18 dBi
VSWR	2.0:1
Return Loss	-10 dB
Port to Port Isolation, Max (dB)	28 dB

## Mechanical

Fine Elevation Adjustment	+/- 10 degrees
Mounting Pipe Diameter, Min	2 inch   5.1 cm
Mounting Pipe Diameter, Max	2.5 inch   6.4 cm
Net Weight	3 lbs   1.4 kg
Wind Velocity Operational	90 mph   145 km/h

Wind Velocity Survival Rating	125 mph   201 km/h
Mechanical Configuration	FPD-5-5
Axial Force (FA)	62 lbs   N
Operating Temperature Range	-40 to +60 C

## Regulatory Compliance

Industry Canada Compliance	undeclared
RoHS-compliant	Yes

## Shipping Information

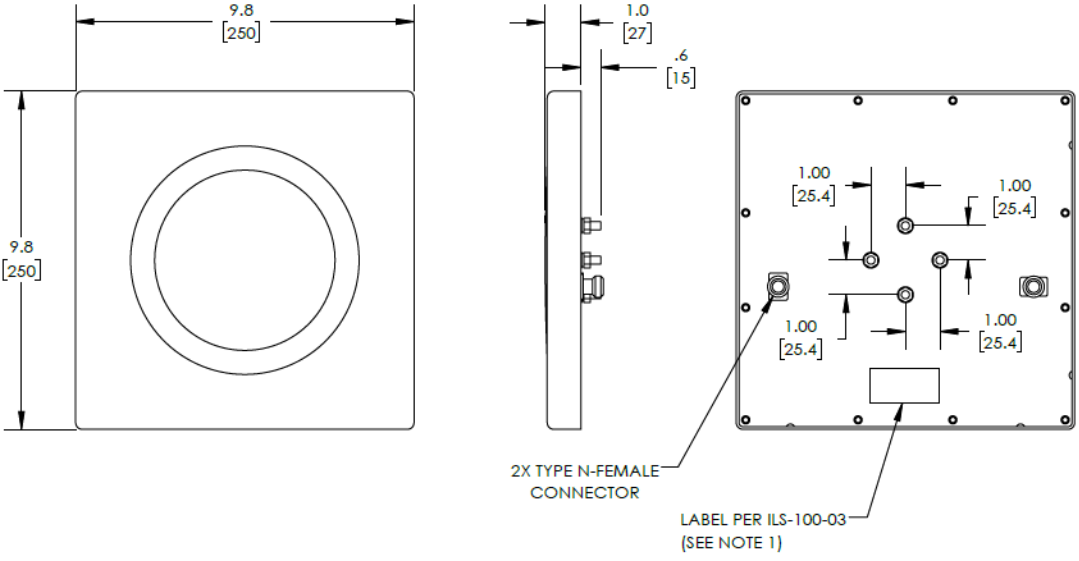
Package Type	Cardboard
Gross Weight	4 lbs   1.1 kg

Dimensions, L x W x H	16 x 16 x 6in   27 x 27 x 17 cm
Shipping Volume	0.5 cu ft   0.01 cu m

Contact RadioWaves for alternate RF interface options.

TECHNICAL DRAWINGS

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/22/2021	KHIETPAS



9.8 [250]

9.8 [250]

1.0 [27]

.6 [15]

1.00 [25.4]

1.00 [25.4]

1.00 [25.4]

1.00 [25.4]

2X TYPE N-FEMALE CONNECTOR

LABEL PER ILS-100-03 (SEE NOTE 1)

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ±.2	[5.08]	FRACTIONS	± 1/32
.XX = ±.02	[.51]		
.XXX = ±.005	[.13]	ANGLES	± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305]	±.1 [25]	/-0
12 [305] < L ≤ 60 [1524]	±.2 [51]	/-0
60 [1524] < L ≤ 120 [3048]	±.4 [102]	/-0
120 [3048] < L ≤ 300 [7620]	±.6 [152]	/-0
300 [7620] < L	±.5%L	/-0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

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SCALE N/A

SHEET 1 OF 1

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	1XCET7	BPUCHASKI	FPD-5-5-18v2

REV A

NOTES:

- LABEL PER ILS-100-03 (FOR INTERNAL REFERENCE ONLY)  
LABEL LOCATION FOR REFERENCE ONLY

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