

## Optimizer® Dualband Antennas

**Polarization:** Dual  $\pm 45^\circ$

**Electrical Downtilt:** Fixed

**Horizontal beamwidth:**  $65^\circ$

### Applications

These new dual band GSM 900 / DCS 1800 and GSM 900 / DCS 1800 - UMTS fixed tilt antennas are cross polarized with a  $65^\circ$  horizontal beamwidth for use in the following systems:

#### Low Band

GSM 900 (872-915, 917-960MHz)

#### High Band

DCS1800 (1710-1785, 1805-1880MHz)

PCS (1850-1910, 1930-1990MHz) (APXG\*-DW\* series)

UMTS (1920-1980, 2110-2170MHz) (APXG\*-DW\* series)

These antennas have enhanced performance with multiple tilt values, gain, sidelobe suppression, VSWR and front to back ratio.

These antennas provide an easy upgrade path for the addition of high band or 3G/UMTS as each band can use a different tilt value ranging from  $0^\circ$ ,  $2^\circ$ ,  $6^\circ$  and  $8^\circ$  for the low band and  $6^\circ$  and  $8^\circ$  for the high band.

Antennas are available in two gain options 14.5/17 and 16.5/18dBi. The antennas are covered by a fiberglass radome and equipped with four 7-16 connectors mounted at the bottom (two 7-16 connectors for duplexed model).

All antennas are designed for use with our APM40 global mount as well as the APM70- 3C cluster kit.

### Features & Benefits

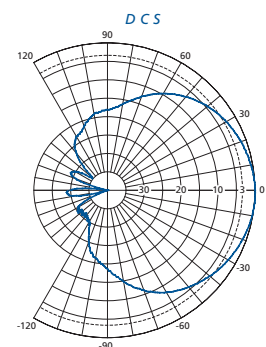
- Side by side construction allows independent tilt value of each antenna array
- High gain on both bands
- High suppression of all upper sidelobes
- At least 30 dB isolation between polarizations
- At least 30 dB isolation between bands
- Stable horizontal and vertical beamwidths
- Broadband design for high band
- Low wind load



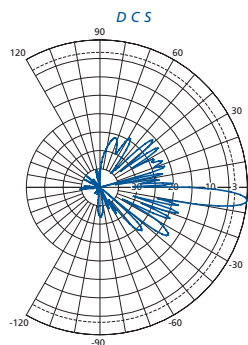
A different electrical tilt value can be selected independently for low band and high band allowing a tight control of both coverage footprints.



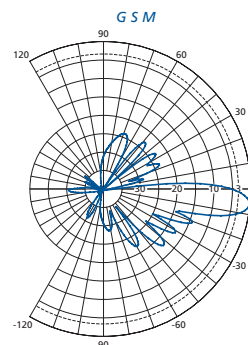
APXG\*-D\* & APXG\*-DW\* Series



Horizontal Pattern



Vertical Pattern



Vertical Pattern

# APXG\*-D\* & APXG\*-DW\* Series

870-2170 MHz

## Optimizer® Dual-Band Panel Dual Polarized Antennas

### APX13G0-15D2L-C

**Horizontal Beamwidth, deg** 65

**Gain, dBi** 14.4 , 16.6

**Electrical Downtilt, deg** 0 , 2

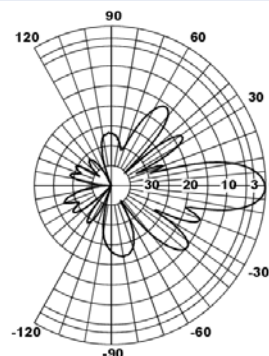
**Diplexed Version**

#### ELECTRICAL SPECIFICATIONS

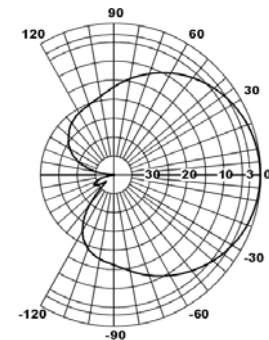
Frequency Range, MHz	870-960	1710-1880
Horizontal Beamwidth, deg	65	65
Vertical Beamwidth, deg	13.5	7
Gain, dBi (dBd)	14.4 (12.3)	16.6 (14.5)
1st Upper Sidelobe Suppression, dB	> 18	
Front-To-Back Ratio, dB	> 27	
VSWR	< 1.5:1	
Isolation between Ports, dB	> 30	
Isolation Between Bands, dB	> 30	
Maximum Power Input, W	500	300
Polarization	Dual pol +/-45°	
3rd Order IMP @ 2 x 43 dBm, dBc	> 150	> 150

#### MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	1350 x 330 x 130 (53.15 x 13 x 5.12)
Survival Wind Speed, km/h (mph)	200 (125)
Max Wind Loading Area, m² (ft²)	0.45 (4.81)
Rated Wind Speed, km/h (mph)	160 (100)
Maximum Thrust @ Rated Wind, N (lbf)	685 (154)
Front Thrust @ Rated Wind, N (lbf)	685 (154)
Reflector Material	Aluminum
Radiating Element Material	Brass
Radome Material	Fiberglass
Radome Color	Light Grey RAL7035
Weight w/o Mtg Hardware, kg (lb)	12 (26.4)
Packing Dimensions - HxWxD, m (ft)	1.5 x 0.4 x 0.25 (4.95 x 1.32 x 0.83)
Packing Dimensions, HxWxD, mm (in)	1520 x 400 x 250 (59.8 x 15.75 x 9.84)



Low Band Vertical Pattern



Low Band Horizontal Pattern

### APX13G0-15D2BL-C

**Horizontal Beamwidth, deg** 65

**Gain, dBi** 14.6 , 16.8

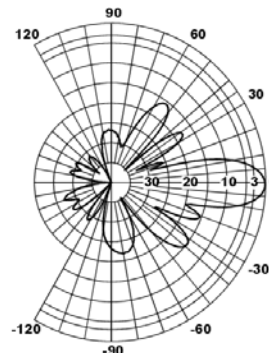
**Electrical Downtilt, deg** 0 , 2

#### ELECTRICAL SPECIFICATIONS

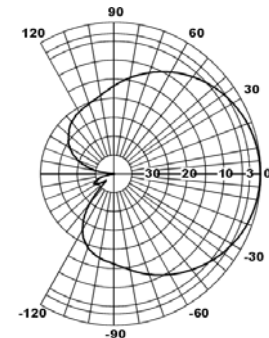
Frequency Range, MHz	870-960	1710-1880
Horizontal Beamwidth, deg	65	65
Vertical Beamwidth, deg	13.5	7
Gain, dBi (dBd)	14.6 (12.5)	16.8 (14.7)
1st Upper Sidelobe Suppression, dB	> 18	
Front-To-Back Ratio, dB	> 27	
VSWR	< 1.5:1	
Isolation between Ports, dB	> 30	
Isolation Between Bands, dB	> 30	
Maximum Power Input, W	500	300
Polarization	Dual pol +/-45°	
3rd Order IMP @ 2 x 43 dBm, dBc	> 150	> 150

#### MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	1350 x 330 x 130 (53.15 x 13 x 5.12)
Survival Wind Speed, km/h (mph)	200 (125)
Max Wind Loading Area, m² (ft²)	0.45 (4.81)
Rated Wind Speed, km/h (mph)	160 (100)
Maximum Thrust @ Rated Wind, N (lbf)	685 (154)
Front Thrust @ Rated Wind, N (lbf)	685 (154)
Reflector Material	Aluminum
Radiating Element Material	Brass
Radome Material	Fiberglass
Radome Color	Light Grey RAL7035
Weight w/o Mtg Hardware, kg (lb)	12 (26.4)
Packing Dimensions - HxWxD, m (ft)	1.5 x 0.4 x 0.25 (4.95 x 1.32 x 0.83)
Packing Dimensions, HxWxD, mm (in)	1520 x 400 x 250 (59.8 x 15.75 x 9.84)



Low Band Vertical Pattern



Low Band Horizontal Pattern

## Optimizer® Dual-Band Panel Dual Polarized Antennas

### APX13G8-15D6L-C

**Horizontal Beamwidth, deg** 65

**Gain, dBi** 14.4, 16.6

**Electrical Downtilt, deg** 8, 6

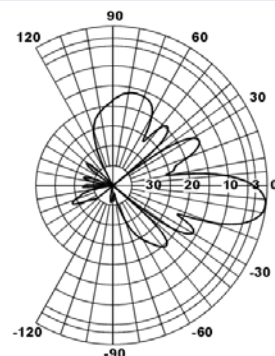
**Diplexed Version**

#### ELECTRICAL SPECIFICATIONS

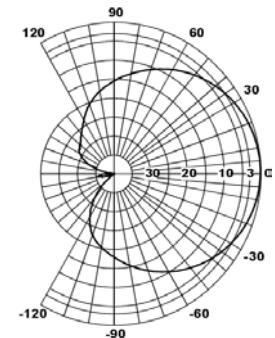
Frequency Range, MHz	870-960	1710-1880
Horizontal Beamwidth, deg	65	65
Vertical Beamwidth, deg	14	7
Gain, dBi (dBd)	14.4 (12.3)	16.6 (14.5)
1st Upper Sidelobe Suppression, dB	> 18 (typ 20)	
Front-To-Back Ratio, dB	> 27	
VSWR	< 1.4:1	
Isolation between Ports, dB	> 30	
Isolation Between Bands, dB	> 30	
Maximum Power Input, W	500	300
Polarization	Dual pol +/-45°	
3rd Order IMP @ 2 x 43 dBm, dBc	> 150	> 150

#### MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	1350 x 330 x 130 (53.15 x 13 x 5.12)
Survival Wind Speed, km/h (mph)	200 (125)
Max Wind Loading Area, m² (ft²)	0.45 (4.81)
Rated Wind Speed, km/h (mph)	160 (100)
Maximum Thrust @ Rated Wind, N (lbf)	685 (154)
Front Thrust @ Rated Wind, N (lbf)	685 (154)
Reflector Material	Aluminum
Radiating Element Material	Brass
Radome Material	Fiberglass
Radome Color	Light Grey RAL7035
Weight w/o Mtg Hardware, kg (lb)	12 (26.4)
Packing Dimensions - HxWxD, m (ft)	1.5 x 0.4 x 0.25 (4.95 x 1.32 x 0.83)
Packing Dimensions, HxWxD, mm (in)	1520 x 400 x 250 (59.8 x 15.75 x 9.84)



Low Band Vertical Pattern



Low Band Horizontal Pattern

### APX13G8-15D6BL-C

**Horizontal Beamwidth, deg** 65

**Gain, dBi** 14.6, 16.8

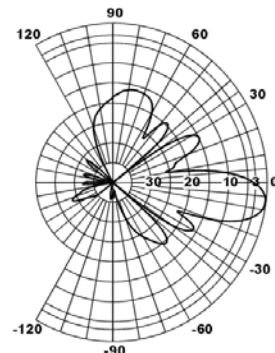
**Electrical Downtilt, deg** 8, 6

#### ELECTRICAL SPECIFICATIONS

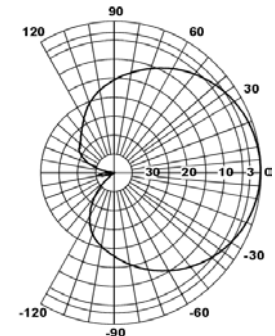
Frequency Range, MHz	870-960	1710-1880
Horizontal Beamwidth, deg	65	65
Vertical Beamwidth, deg	14	7
Gain, dBi (dBd)	14.6 (12.5)	16.8 (14.7)
1st Upper Sidelobe Suppression, dB	> 18 (typ 20)	
Front-To-Back Ratio, dB	> 27	
VSWR	< 1.4:1	
Isolation between Ports, dB	> 30	
Isolation Between Bands, dB	> 30	
Maximum Power Input, W	500	300
Polarization	Dual pol +/-45°	
3rd Order IMP @ 2 x 43 dBm, dBc	> 150	> 150

#### MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	1350 x 330 x 130 (53.15 x 13 x 5.12)
Survival Wind Speed, km/h (mph)	200 (125)
Max Wind Loading Area, m² (ft²)	0.45 (4.81)
Rated Wind Speed, km/h (mph)	160 (100)
Maximum Thrust @ Rated Wind, N (lbf)	685 (154)
Front Thrust @ Rated Wind, N (lbf)	685 (154)
Reflector Material	Aluminum
Radiating Element Material	Brass
Radome Material	Fiberglass
Radome Color	Light Grey RAL7035
Weight w/o Mtg Hardware, kg (lb)	12 (26.4)
Packing Dimensions - HxWxD, m (ft)	1.5 x 0.4 x 0.25 (4.95 x 1.32 x 0.83)
Packing Dimensions, HxWxD, mm (in)	1520 x 400 x 250 (59.8 x 15.75 x 9.84)



Low Band Vertical Pattern



Low Band Horizontal Pattern

# APXG\*-D\* & APXG\*-DW\* Series

870-2170 MHz

## Optimizer® Dual-Band Panel Dual Polarized Antennas

### APX15G0-16D2-C

**Horizontal Beamwidth, deg** 65

**Gain, dBi** 15.8, 17.6

**Electrical Downtilt, deg** 0, 2

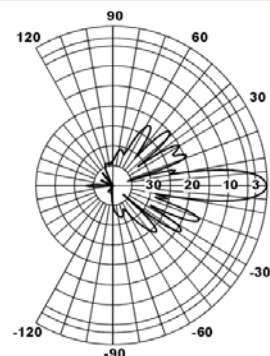
**Diplexed Version**

#### ELECTRICAL SPECIFICATIONS

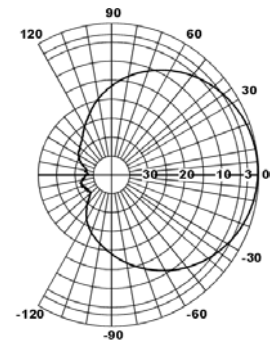
Frequency Range, MHz	870-960	1710-1880
Horizontal Beamwidth, deg	65	65
Vertical Beamwidth, deg	9	5
Gain, dBi (dBd)	15.8 (13.7)	17.6 (15.5)
1st Upper Sidelobe Suppression, dB	> 20	> 17 (typ 20)
Front-To-Back Ratio, dB	> 30	> 30
VSWR	< 1.5:1	< 1.5:1
Isolation between Ports, dB	> 30	> 30
Isolation Between Bands, dB	> 30	> 30
Maximum Power Input, W	500	300
Polarization	Dual pol +/-45°	
3rd Order IMP @ 2 x 43 dBm, dBc	> 150	> 150

#### MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	2080 x 330 x 130 (81.89 x 13 x 5.12)
Survival Wind Speed, km/h (mph)	200 (125)
Max Wind Loading Area, m² (ft²)	0.7 (7.53)
Rated Wind Speed, km/h (mph)	160 (100)
Maximum Thrust @ Rated Wind, N (lbf)	1050 (236)
Front Thrust @ Rated Wind, N (lbf)	1050 (236)
Reflector Material	Aluminum
Radiating Element Material	Brass
Radome Material	Fiberglass
Radome Color	Light Grey RAL7035
Weight w/o Mtg Hardware, kg (lb)	23.4 (51.6)
Packing Dimensions - HxWxD, m (ft)	2.3 x 0.4 x 0.25 (7.59 x 1.32 x 0.83)
Packing Dimensions, HxWxD, mm (in)	2255 x 400 x 250 (88.78 x 15.75 x 9.84)



Vertical Pattern



Horizontal Pattern

### APX15G0-16DW2B-C

**Horizontal Beamwidth, deg** 65

**Gain, dBi** 16, 17.8

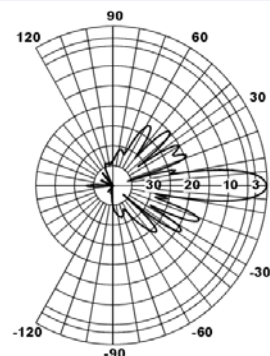
**Electrical Downtilt, deg** 0, 2

#### ELECTRICAL SPECIFICATIONS

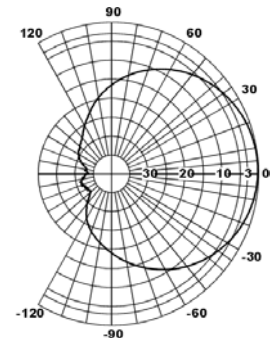
Frequency Range, MHz	870-960	1710-1900	1900-2170
Horizontal Beamwidth, deg	65	65	65
Vertical Beamwidth, deg	9	5	5
Gain, dBi (dBd)	16 (13.9)	17.8 (15.7)	17.8 (15.7)
1st Upper Sidelobe Suppression, dB	> 20	> 17 (typ 20)	> 17 (typ 20)
Front-To-Back Ratio, dB	> 30	> 30	> 30
VSWR	< 1.5:1	< 1.5:1	< 1.5:1
Isolation between Ports, dB	> 30	> 30	> 30
Isolation Between Bands, dB	> 30	> 30	> 30
Maximum Power Input, W	500	300	300
Polarization	Dual pol +/-45°		
3rd Order IMP @ 2 x 43 dBm, dBc	> 150	> 150	> 150

#### MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	2080 x 330 x 130 (81.89 x 13 x 5.12)
Survival Wind Speed, km/h (mph)	200 (125)
Max Wind Loading Area, m² (ft²)	0.7 (7.53)
Rated Wind Speed, km/h (mph)	160 (100)
Maximum Thrust @ Rated Wind, N (lbf)	1050 (236)
Front Thrust @ Rated Wind, N (lbf)	1050 (236)
Reflector Material	Aluminum
Radiating Element Material	Brass
Radome Material	Fiberglass
Radome Color	Light Grey RAL7035
Weight w/o Mtg Hardware, kg (lb)	23.4 (51.6)
Packing Dimensions - HxWxD, m (ft)	2.3 x 0.4 x 0.25 (7.59 x 1.32 x 0.83)
Packing Dimensions, HxWxD, mm (in)	2255 x 400 x 250 (88.78 x 15.75 x 9.84)



Vertical Pattern



Horizontal Pattern





# APXG\*-D\* & APXG\*-DW\* Series

870-2170 MHz

## Optimizer® Dual-Band Panel Dual Polarized Antennas

### APX15G2-16D2-C

**Horizontal Beamwidth, deg** 65

**Gain, dBi** 16.3, 17.8

**Electrical Downtilt, deg** 2, 2

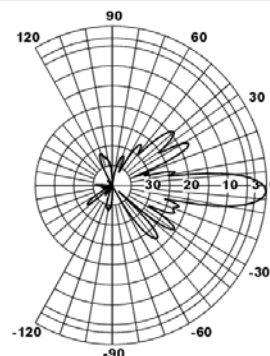
**Diplexed Version**

#### ELECTRICAL SPECIFICATIONS

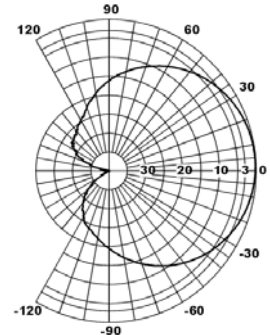
Frequency Range, MHz	870-960	1710-1880
Horizontal Beamwidth, deg	65	65
Vertical Beamwidth, deg	9	5
Gain, dBi (dBd)	16.3 (14.2)	17.8 (15.7)
1st Upper Sidelobe Suppression, dB	> 20	> 17 (typ 20)
Front-To-Back Ratio, dB	> 30	> 30
VSWR	< 1.5:1	< 1.5:1
Isolation between Ports, dB	> 30	> 30
Isolation Between Bands, dB	> 30	> 30
Maximum Power Input, W	500	300
Polarization	Dual pol +/-45°	
3rd Order IMP @ 2 x 43 dBm, dBc	> 150	> 150

#### MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	2080 x 330 x 130 (81.89 x 13 x 5.12)
Survival Wind Speed, km/h (mph)	200 (125)
Max Wind Loading Area, m² (ft²)	0.7 (7.53)
Rated Wind Speed, km/h (mph)	160 (100)
Maximum Thrust @ Rated Wind, N (lbf)	1050 (236)
Front Thrust @ Rated Wind, N (lbf)	1050 (236)
Reflector Material	Aluminum
Radiating Element Material	Brass
Radome Material	Fiberglass
Radome Color	Light Grey RAL7035
Weight w/o Mtg Hardware, kg (lb)	23.4 (51.6)
Packing Dimensions - HxWxD, m (ft)	2.3 x 0.4 x 0.25 (7.59 x 1.32 x 0.83)
Packing Dimensions, HxWxD, mm (in)	2255 x 400 x 250 (88.78 x 15.75 x 9.84)



Low Band Vertical Pattern



Low Band Horizontal Pattern

### APX15G2-16DW2B-C

**Horizontal Beamwidth, deg** 65

**Gain, dBi** 16.5, 18.3

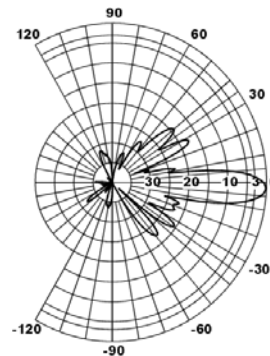
**Electrical Downtilt, deg** 2, 2

#### ELECTRICAL SPECIFICATIONS

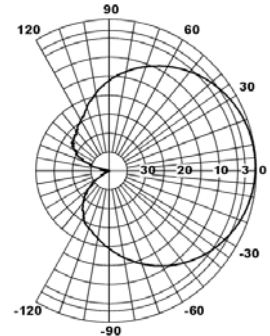
Frequency Range, MHz	870-960	1710-1900	1900-2170
Horizontal Beamwidth, deg	65	65	65
Vertical Beamwidth, deg	9	5	5
Gain, dBi (dBd)	16.5 (14.4)	18.0 (15.9)	18.3 (16.2)
1st Upper Sidelobe Suppression, dB	> 20	> 17 (typ 20)	> 17 (typ 20)
Front-To-Back Ratio, dB	> 30	> 30	> 30
VSWR	< 1.5:1	< 1.5:1	< 1.5:1
Isolation between Ports, dB	> 30	> 30	> 30
Isolation Between Bands, dB	> 30	> 30	> 30
Maximum Power Input, W	500	300	300
Polarization	Dual pol +/-45°		
3rd Order IMP @ 2 x 43 dBm, dBc	> 150	> 150	> 150

#### MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	2080 x 330 x 130 (81.89 x 13 x 5.12)
Survival Wind Speed, km/h (mph)	200 (125)
Max Wind Loading Area, m² (ft²)	0.7 (7.53)
Rated Wind Speed, km/h (mph)	160 (100)
Maximum Thrust @ Rated Wind, N (lbf)	1050 (236)
Front Thrust @ Rated Wind, N (lbf)	1050 (236)
Reflector Material	Aluminum
Radiating Element Material	Brass
Radome Material	Fiberglass
Radome Color	Light Grey RAL7035
Weight w/o Mtg Hardware, kg (lb)	23.4 (51.6)
Packing Dimensions - HxWxD, m (ft)	2.3 x 0.4 x 0.25 (7.59 x 1.32 x 0.83)
Packing Dimensions, HxWxD, mm (in)	2255 x 400 x 250 (88.78 x 15.75 x 9.84)



Low Band Vertical Pattern



Low Band Horizontal Pattern

BASE STATION  
ANTENNAS

2

# APXG\*-D\* & APXG\*-DW\* Series

870-2170 MHz

## Optimizer® Dual-Band Panel Dual Polarized Antennas

### APX15G6-16D2-C

**Horizontal Beamwidth, deg** 65

**Gain, dBi** 16.4 , 17.8

**Electrical Downtilt, deg** 6 , 2

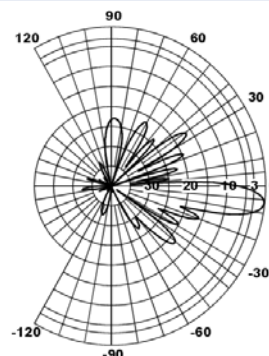
**Diplexed Version**

#### ELECTRICAL SPECIFICATIONS

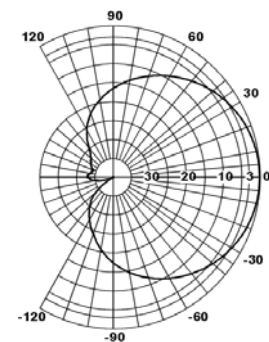
Frequency Range, MHz	870-960	1710-1880
Horizontal Beamwidth, deg	65	65
Vertical Beamwidth, deg	9	5
Gain, dBi (dBd)	16.4 (14.3)	17.8 (15.7)
1st Upper Sidelobe Suppression, dB	> 20	> 18 (typ 20)
Front-To-Back Ratio, dB	> 30	> 30
VSWR	< 1.4:1	< 1.5:1
Isolation between Ports, dB	> 30	> 30
Isolation Between Bands, dB	> 30	> 30
Maximum Power Input, W	500	300
Polarization	Dual pol +/-45°	
3rd Order IMP @ 2 x 43 dBm, dBc	> 150	> 150

#### MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	2080 x 330 x 130 (81.89 x 13 x 5.12)	
Survival Wind Speed, km/h (mph)	200 (125)	
Max Wind Loading Area, m² (ft²)	0.7 (7.53)	
Rated Wind Speed, km/h (mph)	160 (100)	
Maximum Thrust @ Rated Wind, N (lbf)	1050 (236)	
Front Thrust @ Rated Wind, N (lbf)	1050 (236)	
Reflector Material	Aluminum	
Radiating Element Material	Brass	
Radome Material	Fiberglass	
Radome Color	Light Grey RAL7035	
Weight w/o Mtg Hardware, kg (lb)	23.4 (51.6)	
Packing Dimensions - HxWxD, m (ft)	2.3 x 0.4 x 0.25 (7.59 x 1.32 x 0.83)	
Packing Dimensions, HxWxD, mm (in)	2255 x 400 x 250 (88.78 x 15.75 x 9.84)	



Low Band Vertical Pattern



Low Band Horizontal Pattern

### APX15G6-16DW2B-C

**Horizontal Beamwidth, deg** 65

**Gain, dBi** 16.6 , 18.3

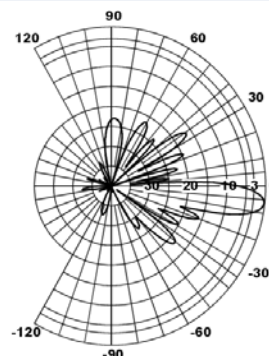
**Electrical Downtilt, deg** 6 , 2

#### ELECTRICAL SPECIFICATIONS

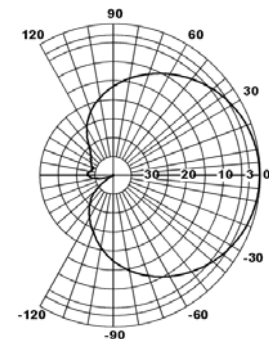
Frequency Range, MHz	870-960	1710-1900	1900-2170
Horizontal Beamwidth, deg	65	65	65
Vertical Beamwidth, deg	9	5	5
Gain, dBi (dBd)	16.5 (14.4)	18.0 (15.9)	18.3 (16.2)
1st Upper Sidelobe Suppression, dB	> 20	> 18 (typ 20)	> 18 (typ 20)
Front-To-Back Ratio, dB	> 30	> 30	> 30
VSWR	< 1.5:1	< 1.5:1	< 1.5:1
Isolation between Ports, dB	> 30	> 30	> 30
Isolation Between Bands, dB	> 30	> 30	> 30
Maximum Power Input, W	500	300	300
Polarization	Dual pol +/-45°		
3rd Order IMP @ 2 x 43 dBm, dBc	> 150	> 150	> 150

#### MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	2080 x 330 x 130 (81.89 x 13 x 5.12)		
Survival Wind Speed, km/h (mph)	200 (125)		
Max Wind Loading Area, m² (ft²)	0.7 (7.53)		
Rated Wind Speed, km/h (mph)	160 (100)		
Maximum Thrust @ Rated Wind, N (lbf)	1050 (236)		
Front Thrust @ Rated Wind, N (lbf)	1050 (236)		
Reflector Material	Aluminum		
Radiating Element Material	Brass		
Radome Material	Fiberglass		
Radome Color	Light Grey RAL7035		
Weight w/o Mtg Hardware, kg (lb)	23.4 (51.6)		
Packing Dimensions - HxWxD, m (ft)	2.3 x 0.4 x 0.25 (7.59 x 1.32 x 0.83)		
Packing Dimensions, HxWxD, mm (in)	2255 x 400 x 250 (88.78 x 15.75 x 9.84)		



Low Band Vertical Pattern



Low Band Horizontal Pattern

## Optimizer® Dual-Band Panel Dual Polarized Antennas

### APX15G6-16D6-C

**Horizontal Beamwidth, deg** 65

**Gain, dBi** 16.3 , 17.4

**Electrical Downtilt, deg** 6 , 6

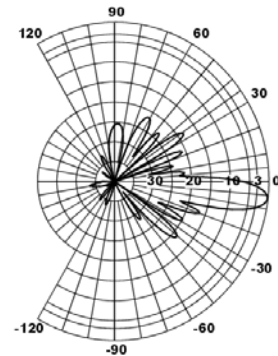
**Diplexed Version**

#### ELECTRICAL SPECIFICATIONS

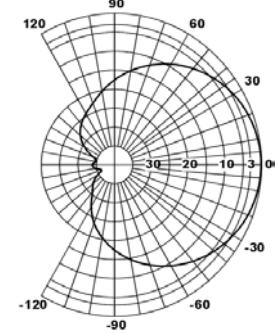
Frequency Range, MHz	870-960	1710-1880
Horizontal Beamwidth, deg	65	65
Vertical Beamwidth, deg	9	5
Gain, dBi (dBd)	16.3 (14.2)	17.4 (15.3)
1st Upper Sidelobe Suppression, dB	> 20	> 17 (typ 20)
Front-To-Back Ratio, dB	> 30	> 30
VSWR	< 1.4:1	< 1.4:1
Isolation between Ports, dB	> 30	> 30
Isolation Between Bands, dB	> 30	> 30
Maximum Power Input, W	500	300
Polarization	Dual pol +/-45°	
3rd Order IMP @ 2 x 43 dBm, dBc	> 150	> 150

#### MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	2080 x 330 x 130 (81.89 x 13 x 5.12)
Survival Wind Speed, km/h (mph)	200 (125)
Max Wind Loading Area, m² (ft²)	0.7 (7.53)
Rated Wind Speed, km/h (mph)	160 (100)
Maximum Thrust @ Rated Wind, N (lbf)	1050 (236)
Front Thrust @ Rated Wind, N (lbf)	1050 (236)
Reflector Material	Aluminum
Radiating Element Material	Brass
Radome Material	Fiberglass
Radome Color	Light Grey RAL7035
Weight w/o Mtg Hardware, kg (lb)	23.4 (51.6)
Packing Dimensions - HxWxD, m (ft)	2.3 x 0.4 x 0.25 (7.59 x 1.32 x 0.83)
Packing Dimensions, HxWxD, mm (in)	2255 x 400 x 250 (88.78 x 15.75 x 9.84)



Vertical Pattern



Horizontal Pattern

### APX15G6-16DW6B-C

**Horizontal Beamwidth, deg** 65

**Gain, dBi** 16.5 , 17.6

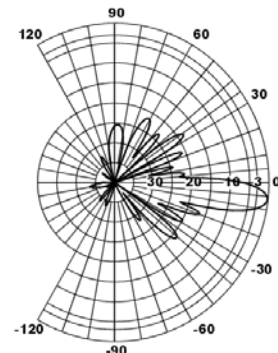
**Electrical Downtilt, deg** 6 , 6

#### ELECTRICAL SPECIFICATIONS

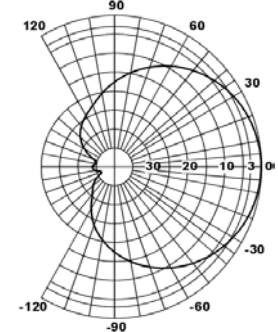
Frequency Range, MHz	870-960	1710-1900	1900-2170
Horizontal Beamwidth, deg	65	65	65
Vertical Beamwidth, deg	9	5	5
Gain, dBi (dBd)	16.5 (14.4)	17.6 (15.5)	17.6 (15.5)
1st Upper Sidelobe Suppression, dB	> 20	> 17 (typ 20)	> 17 (typ 20)
Front-To-Back Ratio, dB	> 30	> 30	> 30
VSWR	< 1.4:1	< 1.4:1	< 1.4:1
Isolation between Ports, dB	> 30	> 30	> 30
Isolation Between Bands, dB	> 30	> 30	> 30
Maximum Power Input, W	500	300	300
Polarization	Dual pol +/-45°		
3rd Order IMP @ 2 x 43 dBm, dBc	> 150	> 150	> 150

#### MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	2080 x 330 x 130 (81.89 x 13 x 5.12)
Survival Wind Speed, km/h (mph)	200 (125)
Max Wind Loading Area, m² (ft²)	0.7 (7.53)
Rated Wind Speed, km/h (mph)	160 (100)
Maximum Thrust @ Rated Wind, N (lbf)	1050 (236)
Front Thrust @ Rated Wind, N (lbf)	1050 (236)
Reflector Material	Aluminum
Radiating Element Material	Brass
Radome Material	Fiberglass
Radome Color	Light Grey RAL7035
Weight w/o Mtg Hardware, kg (lb)	23.4 (51.6)
Packing Dimensions - HxWxD, m (ft)	2.3 x 0.4 x 0.25 (7.59 x 1.32 x 0.83)
Packing Dimensions, HxWxD, mm (in)	2255 x 400 x 250 (88.78 x 15.75 x 9.84)



Vertical Pattern



Horizontal Pattern

