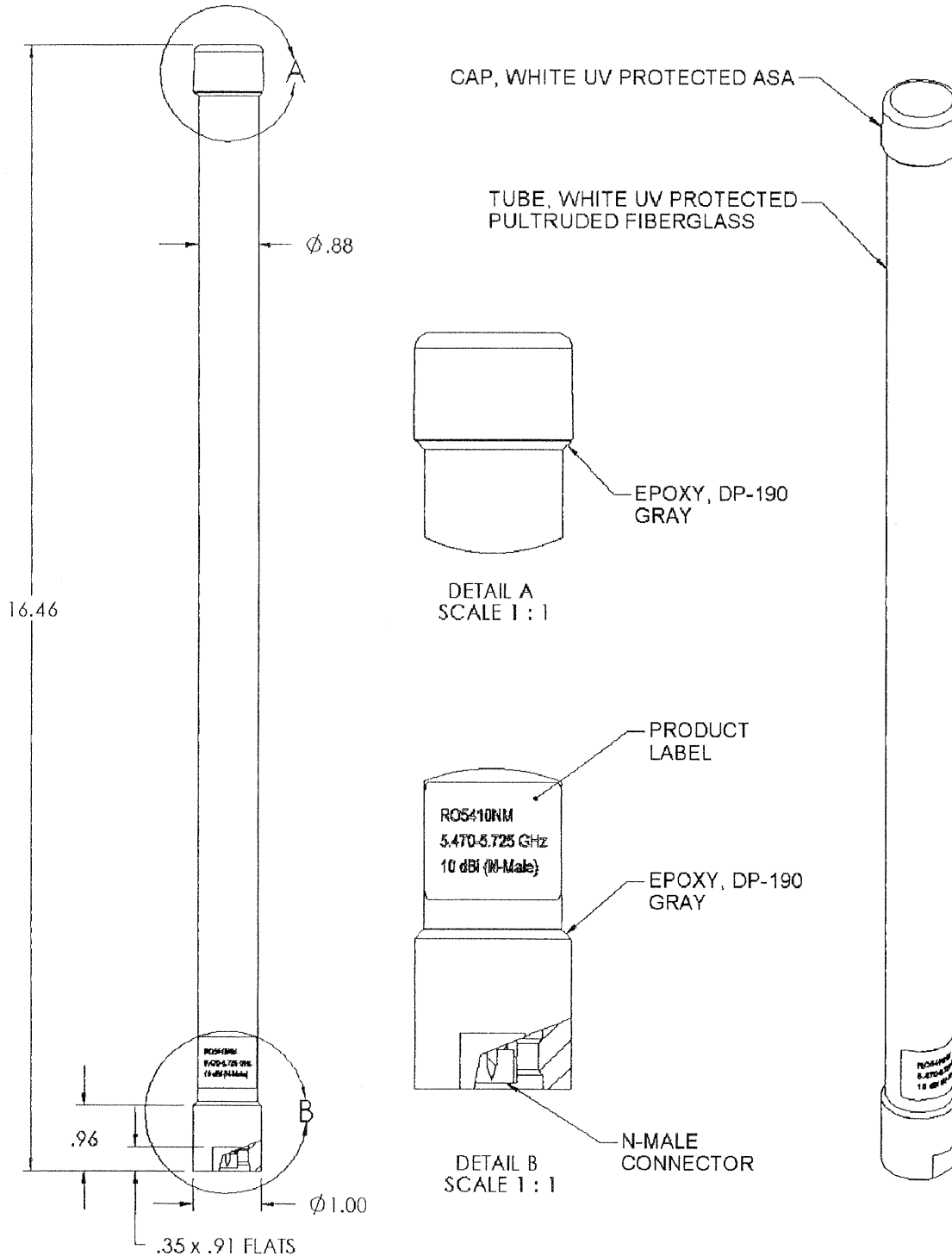


5725-5875 MHz RADOME OMNI – 10 dBi
OMNIDIRECTIONAL ANTENNA

RO5810NM
Series : ANTENNA



All dimensions are in inches

Issue : 0819

In the effort to improve our products, we reserve the right to make changes judged to be necessary.



5725-5875 MHz RADOME OMNI – 10 dBi

OMNIDIRECTIONAL ANTENNA

RO5810NM

Series : ANTENNA

ELECTRICAL SPECIFICATIONS

Frequency :	5725-5875 MHz
Nominal Impedance :	50 Ω
VSWR :	2:1 Max
Gain :	10 dBi
Radiation Pattern	
-3 dB beamwidth	
Horizontal Plane :	Omni
Vertical Plane :	8.5 ° ± .5 °
Cross Polarization level	
Horizontal Plane :	>23 dB
Vertical Plane :	>23 dB
Polarization :	VERTICAL
Power withstanding :	20 W
Connector type :	N Male

MECHANICAL SPECIFICATIONS

Radome :	Pultruded Fiberglass, UV-Protected
Plastic cap :	Acrylonitrile Styrene Acrylate (ASA) UL File-N°. E41871 (UL 94 – HB)
Adhesive :	3M Scotch Weld™ DP-190 Gray
Color :	WHITE
Ingress Protection :	IP 67
Weight :	5.5 oz
Wind-loading :	150 Mph
Side-loading @ 1ft :	30 lbs
Vertical Pull :	100 lbs
Overall length :	16.46 INCHES

5725-5875 MHz RADOME OMNI – 10 dBi
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ENVIRONMENTAL SPECIFICATIONS

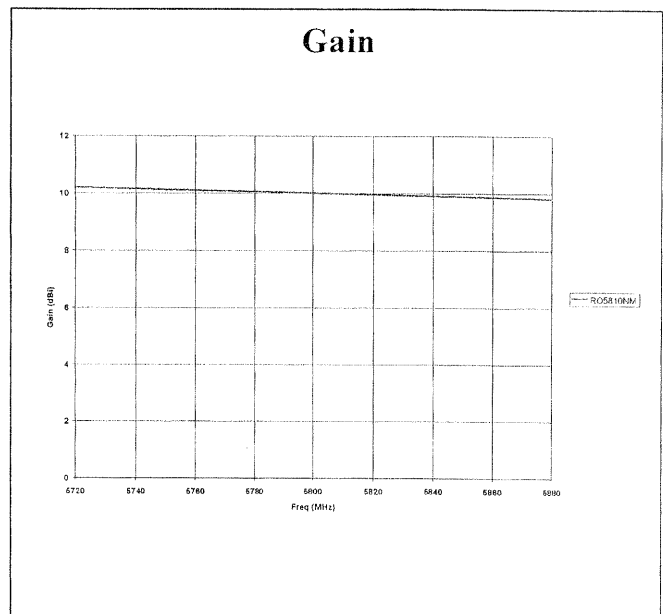
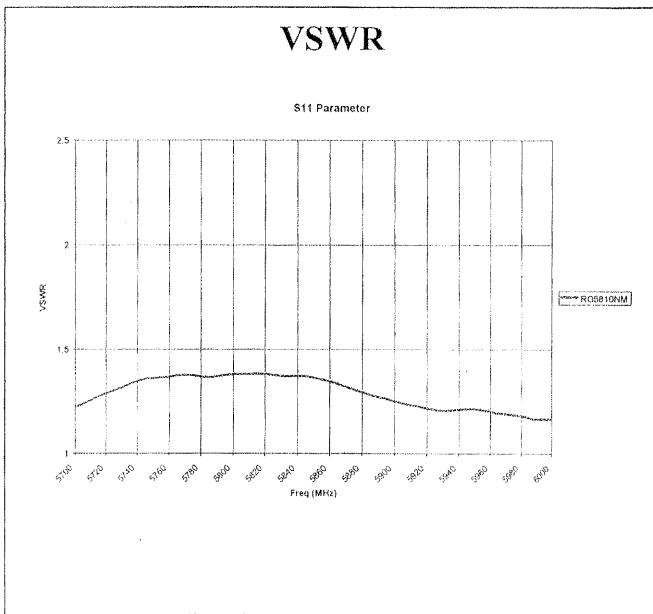
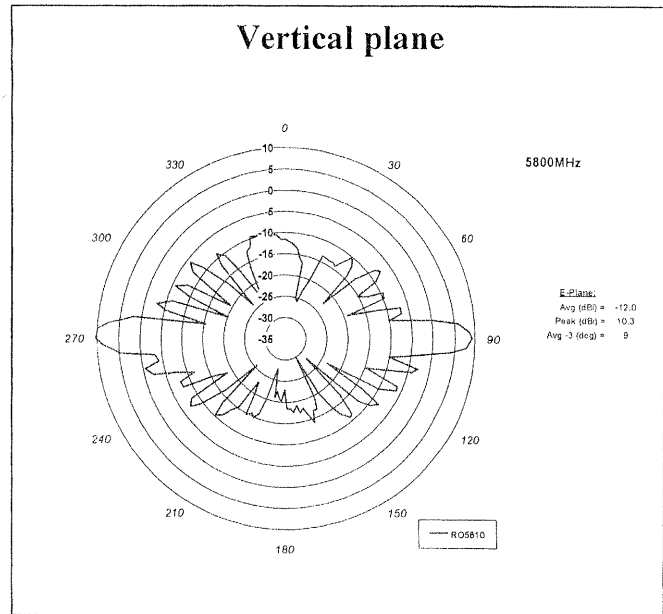
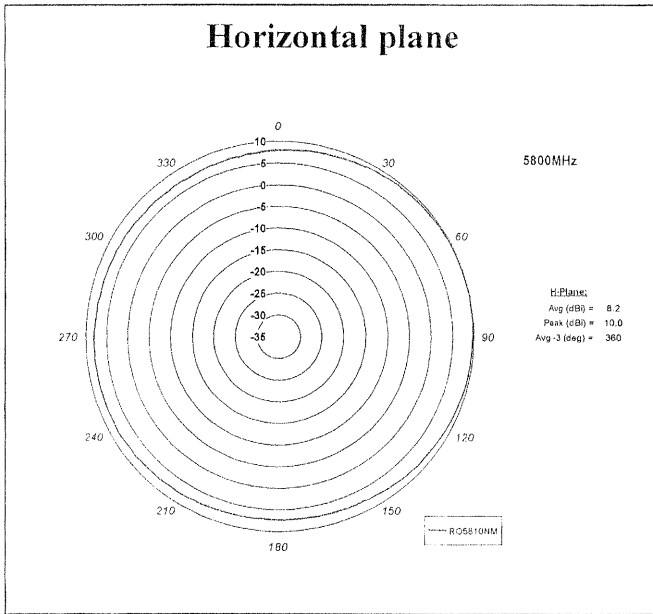
Temperature: -40/+65 ° C
Ingress Protection : IP 67
Temperature Cycling: -40°C dwell 6 hours/+65°C dwell 6 hours
4 full cycles (no condensation)
Leak Test: Fully submerged 12”
12 hours (no water intrusion)

OTHER SPECIFICATIONS

5725-5875 MHz RADOME OMNI – 10 dBi
OMNIDIRECTIONAL ANTENNA

RO5810NM
Series : ANTENNA

CURVES

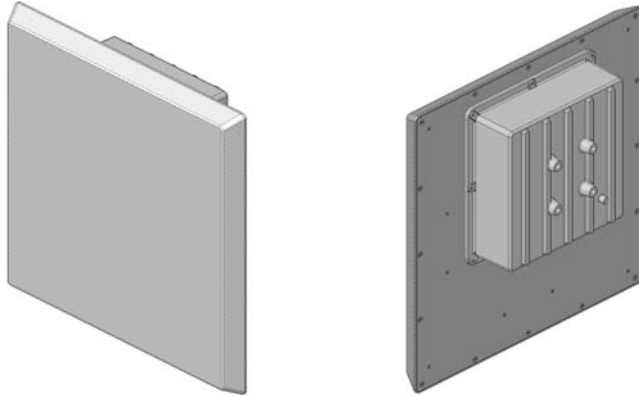


Issue : 0819

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5.15-5.875GHz 24/23dBi Dual Polarization Panel Antenna for ARC IES™, Integrated Enclosure Solution



- ◆ Fits ARC's IES™ Gen I & Gen II Enclosures—SOLD SEPARATELY— Part #ARC-IE1001K02 or Part #ARC-IE2000K01, both include mounting bracket
- ◆ US Engineered
- ◆ Manufactured under strict US quality control procedures
- ◆ High gain, competitive pricing
- ◆ Low profile and rugged design for outdoor use
- ◆ Custom Enclosures available

Mechanical and Environmental Specifications	
Length x Width x Depth	15.2in x 15.2in x 1.12in (386mm x 386mm x 28.4mm)
Weight	3.6lbs (1.66kg)
Backplane	Aluminum
Radome	UV stabilized ABS plastic, gray
Wind Survivability	125mph (201kph)
Wind Load	1.6ft ² (0.148m ²)
Operating Temperature Range	-49°F to 149°F (-45°C to 65°C)
Pole Mount Diameter Range	0.75in to 3.0in (19mm to 76mm)
Environmental	IP 67
Connector (2)	R/A SMA Jack

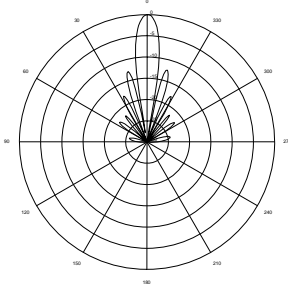
Electrical Specifications	
Frequency Range	5.15—5.875 GHz
Gain	24dBi Vertical 23dBi Horizontal
3dB Beamwidth Vertical/Horizontal	8 degrees/8 degrees
ETSI	ETSI 2, 3, and 5
VSWR 5.15-5.35GHz 5.35-5.875GHz	≤2.0:1 max ≤1.5:1 typ., ≤1.7:1 max.
Port to Port Isolation	40dB (minimum)
Front-to-Back Ratio	>40 dBi
Cross Polarization	>30 dBi
Sidelobe Level	>12 dBi
Power Rating	30 watts
Impedance	50 ohms
Lightning Protection	DC ground

Shipping Information	
<u>Sizes and Weights</u>	<u>Description</u>
18.625" x 15.3" x 15.25" (473mm x 388.6mm x 387.4mm) 34 lbs (15.4 kg)	Bulk Pack, includes 10 in an overpack box

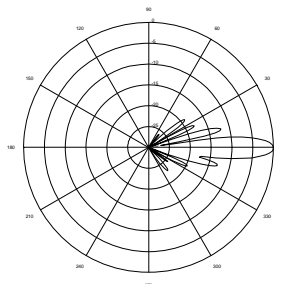
Ordering Information	
<u>Part #</u>	<u>Description</u>
ARC-ID5823B88	5.8GHz 24/23dBi Dual Pol, R/A SMA Jack

Vertical Polarization

RF Patterns
Vertical Cut, typ.

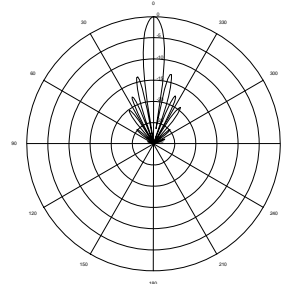


RF Patterns
Horizontal Cut, typ.

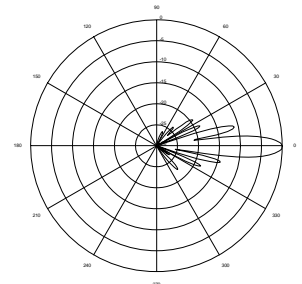


Horizontal Polarization

RF Patterns
Vertical Cut, typ.



RF Patterns
Horizontal Cut, typ.





global solutions :
local support™

HD Series™ High Performance Dish Antennas 4900 to 5875 MHz Operation

The new HD Series dish antennas offered by Laird Technologies offer the system engineer the best performance available on the market. The antennas meet ETSI EN 302 085 TS4/TS5 and EN 300 833 Class 1 specifications, the most stringent specifications for point to point backhaul antennas. The unique feed system is available in a single polarization version which can be mounted for either vertical or horizontal polarization. There is also a dual polarized version available for those systems which can utilize dual polarization to increase bandwidth or implement diversity. An optional fiberglass radome is available for added environmental protection.

Features and Benefits:

- Wide band operation
- Vertically or horizontally polarized
- Dual polarity models available
- Ultralow sidelobes, meets ETSI standards
- Extremely rugged for long service life in extreme environments

Applications

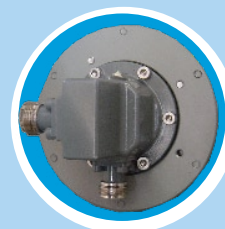
- 802.11a applications
- OFDM systems
- Cellular backhaul
- Point-to-point backhaul
- Public safety communications

For sales information:

Telephone 801-572-3024

E-Mail sales@pacwireless.com

or visit: www.pacwireless.com



Specifications

Parameter	Min	Typ	Max	Units
Frequency Range (Single Pol.)	4900		5875	MHz
Frequency Range (Dual Pol.)	5150		5850	MHz
VSWR (Single Pol.)		1.5:1		
VSWR (Dual Pol.)		1.8:1		
Impedance		50		OHM
Input Power			100	W
Mechanical Downtilt			30	deg
Pole Diameter (OD)	2" (50)		4" (101.6)	Inch (mm)
Operating Temperature	-40		+70	Deg C

Parameter	HDDA5W-29-xx	HDDA5W-32-xx
Gain	29dBi	32 dBi
Beam Width	6 deg	4 deg
Sidelobes	-32dB	-32 dB
Front to Back	-32dB	-38 dB
Cross Pole	-32dB	-34dB
Weight	11lb (5kg)	22lb (10kg)
Dimensions (Diameter)	25.5 (648mm)	36.5 (927mm)

Wind Loading (Lbs.)

Model	100MPH	125MPH
HDDA5W-29	113	177
HDDA5W-29 with Radome	75	116
HDDA5W-32	256	400
HDDA5W-32 with Radome	111	174

System Ordering:

- HDDA5W-29 - 29dBi single polarity (H or V)
- HDDA5W-29-DP - 29dBi dual polarity (H and V)
- HDDA5W-32 - 32dBi single polarity (H or V)
- HDDA5W-32-DP - 32dBi dual polarity (H and V)

Notes:

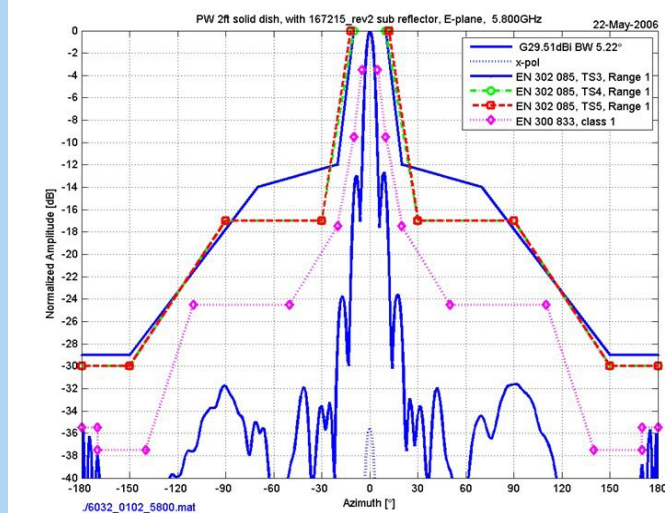
- All shipments F.O.B. Schaumburg, IL 60173
- All antennas carry a 2 Year Warranty

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Specifications subject to change without notice.

Typical Antenna Patterns With ETSI Limits

5.8GHz E-plane



5.8GHz H-plane

