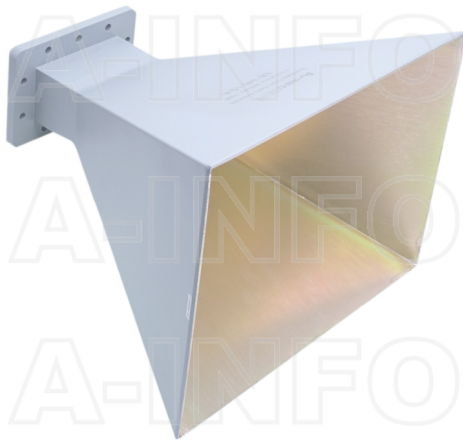




### LB-340-15-A Standard Gain Horn Antenna 2.2-3.3GHz 15dB Gain Rectangular Waveguide Interface

Standard Gain Horn Antenna Operating From 2.2GHz to 3.3GHz With a Nominal 15dB Gain With Rectangular Waveguide Interface

## Product Information

|     |             |
|-----|-------------|
| SKU | LB-340-15-A |
|-----|-------------|

## Description

Standard Gain Horn Antenna LB-340-15-A, operating from 2.2 to 3.3GHz with a nominal 15dB gain and low VSWR 1.15:1 with FDP26 output. The model LB-340-15-A has uniform gain through its frequency span, providing efficient performance characteristics and directionality. Constructed of lightweight corrosion-resistant aluminum, the antenna will provide years of trouble-free indoor and outdoor service. This standard gain horn antenna is linearly polarized and ideally suited for EMI testing, direction finding, surveillance, antenna gain and pattern measurements and other applications.

## Technical Specification

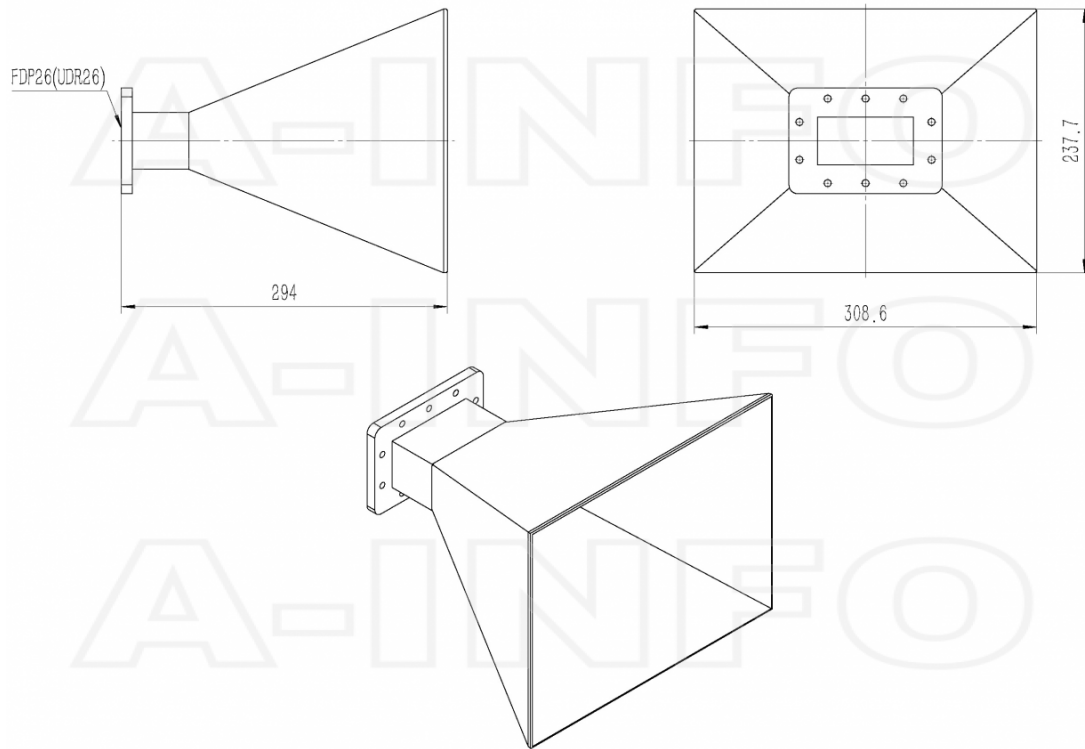
| Electrical Specification           |             | Interface                |                                         |
|------------------------------------|-------------|--------------------------|-----------------------------------------|
| Frequency, Min (GHz)               | 2.2         | Output Type              | Waveguide                               |
| Frequency, Max (GHz)               | 3.3         | Flange Style             | Rectangular                             |
| Waveguide Type                     | Rectangular | Flange Type              | Cover                                   |
| Waveguide Size EIA WR              | WR340       | Flange Designation       | FDP26(UDR26)                            |
| Gain, Typ (dBi)                    | 15          | Mechanical Specification |                                         |
| Polarization                       | Linear      | Figure                   | A Type                                  |
| 3dB Beamwidth, E-Plane, Typ (Deg.) | 28          | Body Material            | Al                                      |
| 3dB Beamwidth, H-Plane, Typ (Deg.) | 30          | Finish                   | Chemical Conversion Coating, Gray Paint |
| Cross Pol. Isolation, Typ (dB)     | 40          | Size, W (mm)             | 308.6                                   |
| VSWR, Typ                          | 1.15:1      | Size, H (mm)             | 237.7                                   |
|                                    |             | Size, L (mm)             | 294                                     |
|                                    |             | Weight, (kg)             | 1.8                                     |

## Additional Information

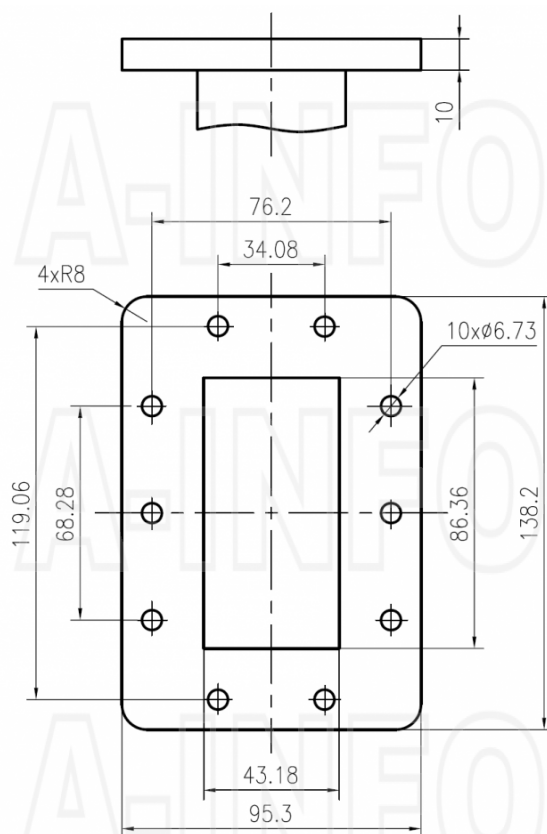
|             |                                         |              |                                                                                                                                 |
|-------------|-----------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------|
| Application | General Purpose Indoor & Outdoor, Fixed | Solution for | Gain Reference<br>Antenna Measurement<br>Reflector Feed<br>Far-field Measurement<br>System Intergration<br>Material Measurement |
|-------------|-----------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------|

## Outline Drawing

FDP26 Output (P/N: LB-340-15-A)



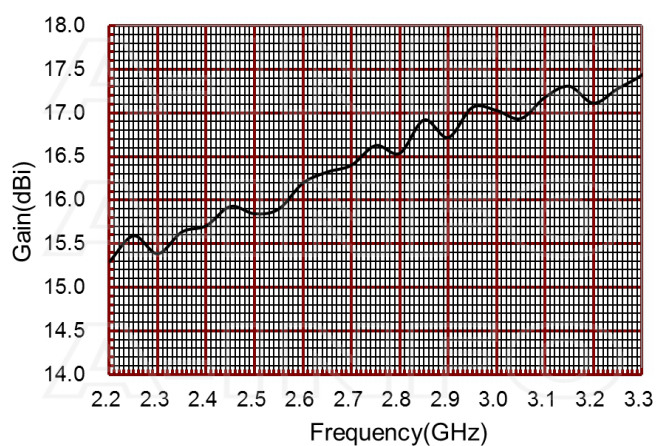
## Flange Drawing



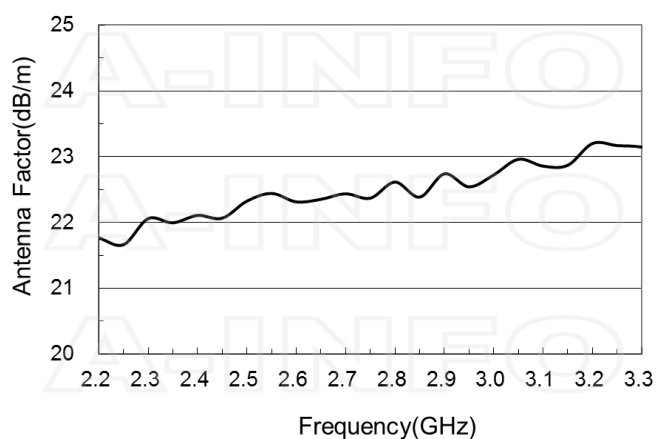
FDP26

## Typical Test Results

### Gain



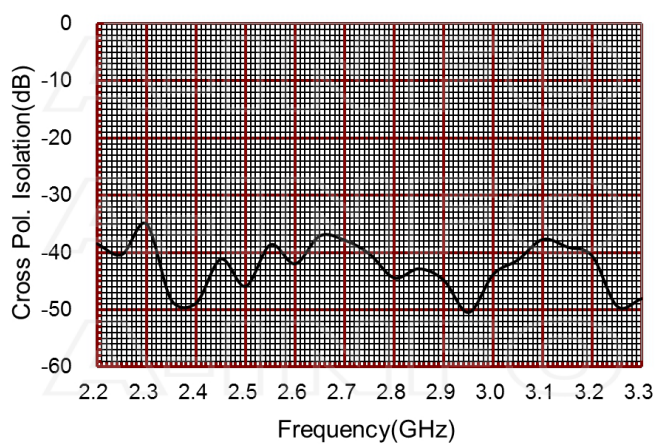
## Antenna Factor



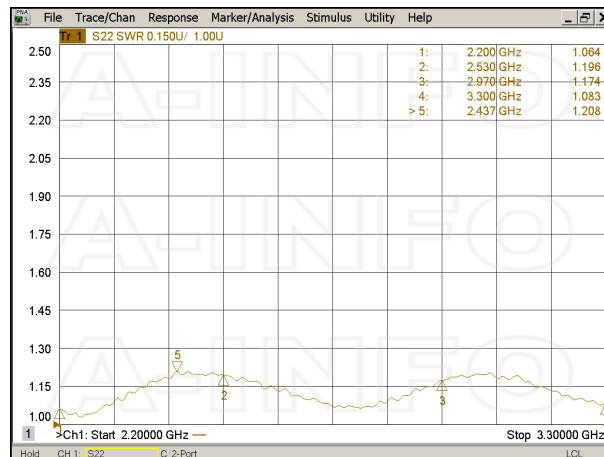
## Antenna Factor (Table)

| Frequency(GHz) | Gain(dBi) | Antenna Factor(dB/m) |
|----------------|-----------|----------------------|
| 2.1            | 14.85     | 21.80                |
| 2.2            | 14.85     | 22.01                |
| 2.2            | 15.29     | 21.77                |
| 2.3            | 15.39     | 22.06                |
| 2.4            | 15.71     | 22.11                |
| 2.5            | 15.84     | 22.33                |
| 2.6            | 16.20     | 22.31                |
| 2.7            | 16.40     | 22.44                |
| 2.8            | 16.54     | 22.61                |
| 2.9            | 16.72     | 22.74                |
| 3.0            | 17.03     | 22.72                |
| 3.1            | 17.18     | 22.86                |
| 3.2            | 17.11     | 23.20                |
| 3.3            | 17.43     | 23.15                |

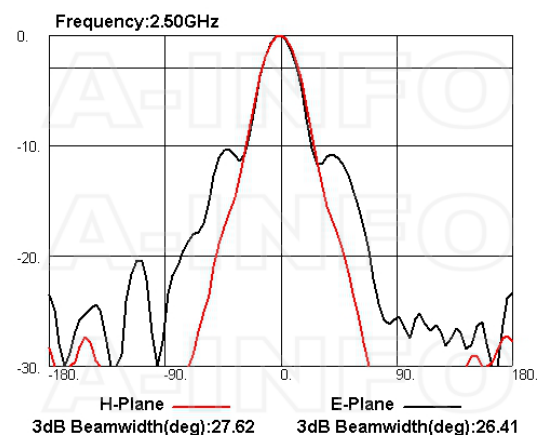
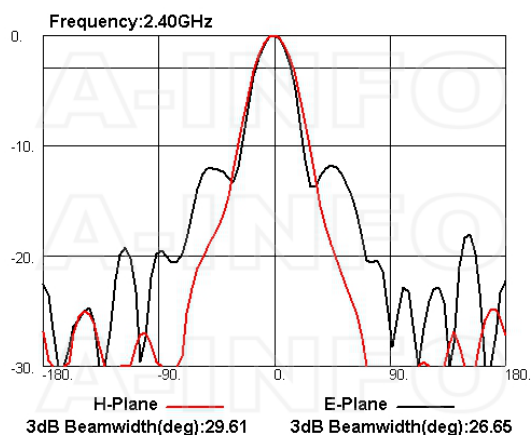
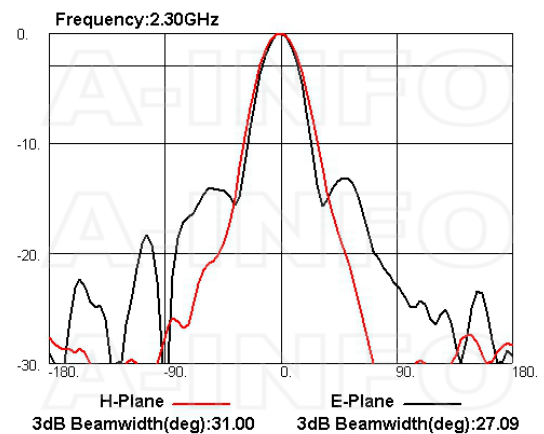
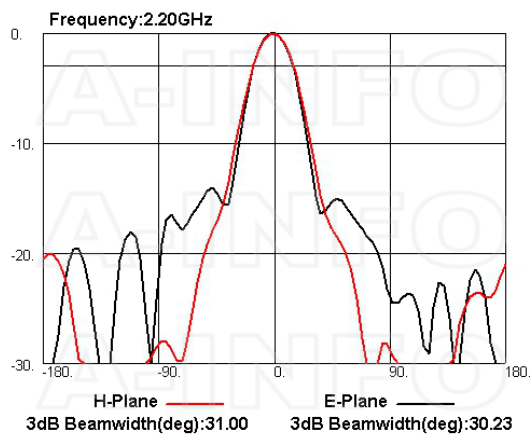
## Cross Polarization Isolation

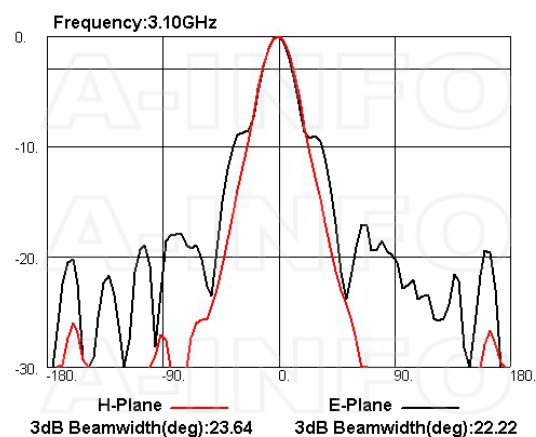
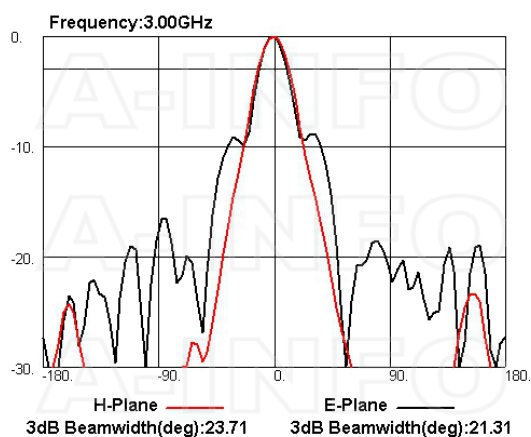
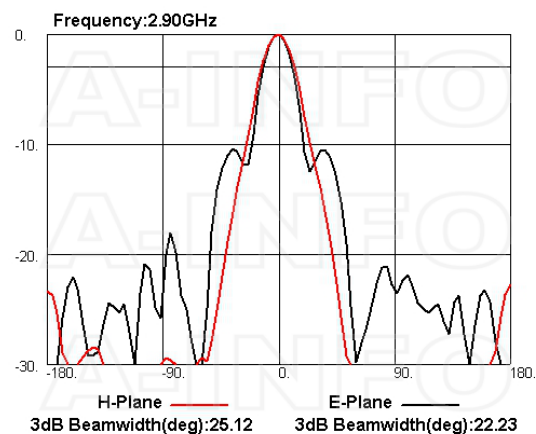
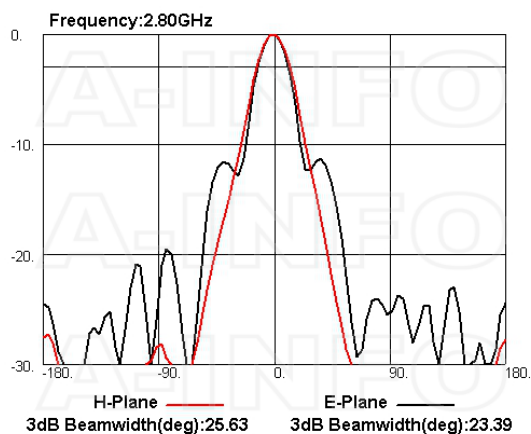
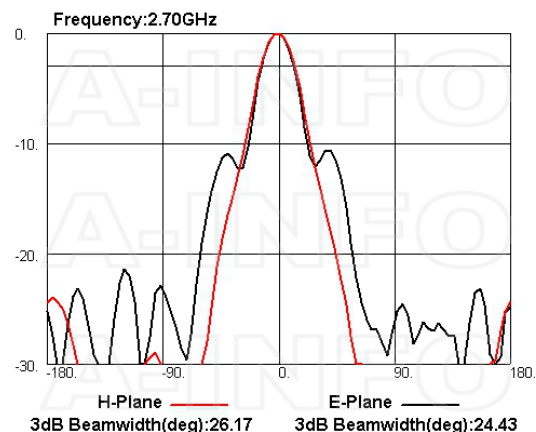
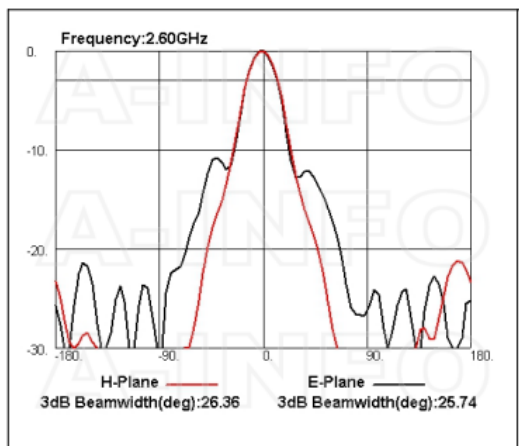


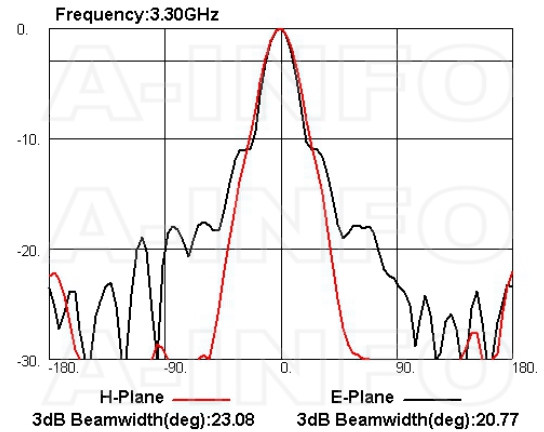
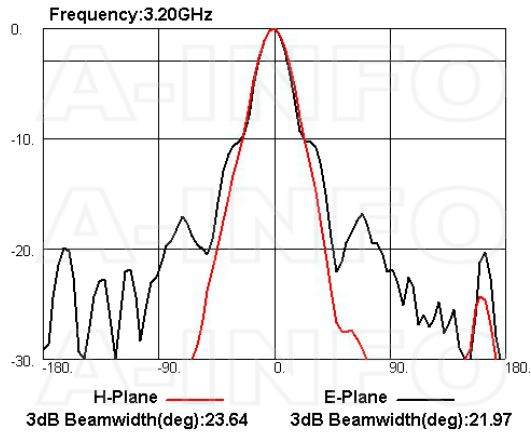
## VSWR



## Pattern







### Related Products



340WCAN Right Angle Rectangular Waveguide to Coaxial Adapter 2.2-3.3GHz WR340 to N Type Female



340WCANM Right Angle Rectangular Waveguide to Coaxial Adapter 2.2-3.3GHz WR340 to N Type Male



340WCAS Right Angle Rectangular Waveguide to Coaxial Adapter 2.2-3.3GHz WR340 to SMA Female



340WCASM Right Angle Rectangular Waveguide to Coaxial Adapter 2.2-3.3GHz WR340 to SMA Male



340WCA7/16 Right Angle Rectangular Waveguide to Coaxial Adapter 2.2-3.3GHz WR340 to 7/16 DIN Female



340WECAN Endlaunch Rectangular Waveguide to Coaxial Adapter 2.2-3.3GHz WR340 to N Type Female



340WECAS Endlaunch Rectangular Waveguide to Coaxial Adapter 2.2-3.3GHz WR340 to SMA Female



340WECAM Endlaunch Rectangular Waveguide to Coaxial Adapter 2.2-3.3GHz WR340 to SMA Male

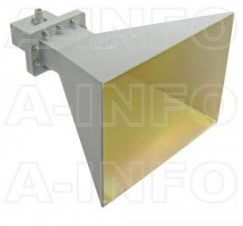


M6x35 Hex\_Pack WR430-WR340 Flange Assembly Pack

Similar Products



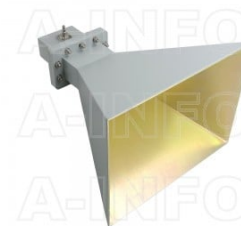
LB-340-15-ASPO Standard Gain  
Horn Antenna 2.2-3.3GHz 15dB  
Gain Rectangular Waveguide  
Interface



LB-340-15-C-NF Standard Gain  
Horn Antenna 2.2-3.3GHz 15dB  
Gain N Type Female



LB-340-15-C-NFSPO Standard  
Gain Horn Antenna 2.2-3.3GHz  
15dB Gain N Type Female



LB-340-15-C-SF Standard Gain  
Horn Antenna 2.2-3.3GHz 15dB  
Gain SMA Female



LB-340-15-C-SFSPO Standard  
Gain Horn Antenna 2.2-3.3GHz  
15dB Gain SMA Female



LB-340-15-C-7/16F Standard  
Gain Horn Antenna 2.2-3.3GHz  
15dB Gain 7/16(DIN) Female



LB-340-15-C-7/16FSPO Standard  
Gain Horn Antenna 2.2-3.3GHz  
15dB Gain 7/16(DIN) Female

About this Datasheet

|                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                |                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>● Product Information</li></ul> <p>Product Link:<br/><a href="https://www.ainfoinc.com/lb-340-15-a-standard-gain-horn-antenna-2-2-3-3-ghz-15db-gain-fdp26">https://www.ainfoinc.com/lb-340-15-a-standard-gain-horn-antenna-2-2-3-3-ghz-15db-gain-fdp26</a><br/>Data subject to change without notice.<br/>© A-INFO INC. 2023. All Rights Reserved</p> | <ul style="list-style-type: none"><li>● Contact Us</li></ul> <p>Address:dd<br/>60 Tesla, Irvine, CA 92618,<br/>USA</p> <p>Website:<br/><a href="http://www.ainfoinc.com">www.ainfoinc.com</a></p> <p>Email:<br/><a href="mailto:sales@ainfoinc.com">sales@ainfoinc.com</a></p> | <ul style="list-style-type: none"><li>● Phone &amp; Fax</li></ul> <p>Phone:<br/>+1-949-639-9688<br/>+1-949-639-9608</p> <p>Fax:<br/>+1-949-639-9670</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|