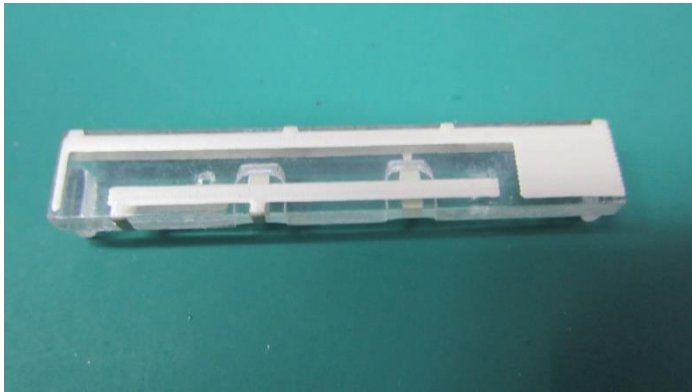


## Description: LTE SNAP-ON ANTENNA

698-960MHz, 1427.9-1660.5MHz, 1695-2200MHz, 2300-2700MHz

**Series: Embedded Antenna**

**PART NUMBER: CLA-W3796P**

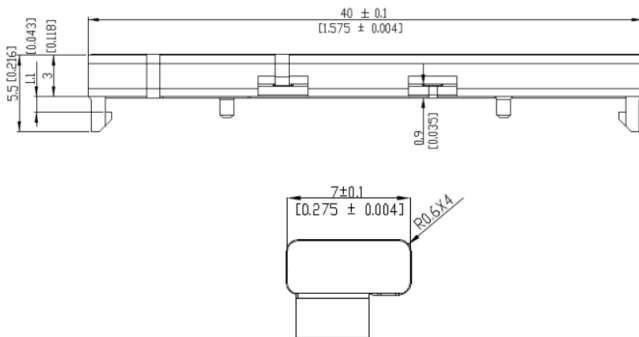


### Features:

- 698-2700MHz
- Easy snap-on mounting onto radio PCB
- Transparent plastic carrier
- C-clip contacts on radio board

### Applications:

- 2G, 3G, 4G LTE
- M2M, IoT
- High speed data devices
- Security, Transportation
- Gateways, Set top boxes



All dimensions are in mm / inches

Issue: 1611

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For more information:

Pulse Worldwide Headquarters  
12220 World Trade Drive  
San Diego, CA 92128  
USA  
Tel: 1-858-674-8100

Pulse/Larsen Antennas  
3611 NE 112<sup>th</sup> Ave  
Vancouver, WA 98682  
USA  
Tel: 1-360-944-7551

Europe Headquarters  
Pulse GmbH & Co, KG  
Zeppelinstrasse 15  
Herrenberg, Germany  
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.  
99 Huo Ju Road(#29 Bldg, 4<sup>th</sup> Phase  
Suzhou New District  
Jiangsu Province, Suzhou 215009 PR China  
Tel: 86 512 6807 9998



**Description: LTE SNAP-ON ANTENNA**

698-960MHz, 1427.9-1660.5MHz, 1695-2200MHz, 2300-2700MHz

**Series: Embedded Antenna****PART NUMBER: CLA-W3796P****ELECTRICAL SPECIFICATIONS**

|                                             |                                                      |
|---------------------------------------------|------------------------------------------------------|
| Frequency                                   | 698-960 / 1427.9-1660.5/<br>1695-2200 / 2300-2700MHz |
| Nominal Impedance                           | 50 $\Omega$                                          |
| VSWR                                        | 3.5:1 @1427.9-1660.5MHz<br>3:1 @ the others band     |
| Return Loss                                 | -5dB @1427.9-1660.5MHz<br>-6dB @ the others band     |
| Average Total Efficiency (698-960MHz)       | 60%                                                  |
| Average Total Efficiency (1427.9-1660.5MHz) | 45%                                                  |
| Average Total Efficiency (1695-2200MHz)     | 70%                                                  |
| Average Total Efficiency (2300-2700MHz)     | 70%                                                  |
| Average Peak Gain (698-960MHz)              | 0.4 dBi                                              |
| Average Peak Gain (1427.9-1660.5MHz)        | 1.5 dBi                                              |
| Average Peak Gain (1695-2200MHz)            | 3.0 dBi                                              |
| Average Peak Gain (2300-2700MHz)            | 5.2 dBi                                              |
| Average Gain (698-960MHz)                   | -2.0 dBi                                             |
| Average Gain (1427.9-1660.5MHz)             | -3.1 dBi                                             |
| Average Gain (1695-2200MHz)                 | -1.5 dBi                                             |
| Average Gain (2300-2700MHz)                 | -1.5 dBi                                             |
| Maximum power input                         | 5W                                                   |

(\*) All RF parameters measured on Pulse reference test PCB

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**Description: LTE SNAP-ON ANTENNA**

698-960MHz, 1427.9-1660.5MHz, 1695-2200MHz, 2300-2700MHz

**Series: Embedded Antenna**

**PART NUMBER: CLA-W3796P**

**MECHANICAL SPECIFICATIONS**

|               |         |
|---------------|---------|
| Plastic       | PC      |
| Color         | Clarity |
| Weight        | 2 g     |
| Fixing system | 2 snaps |

**ENVIRONMENTAL SPECIFICATIONS**

|                       |              |
|-----------------------|--------------|
| Operating temperature | -40 ~ +85° C |
|-----------------------|--------------|

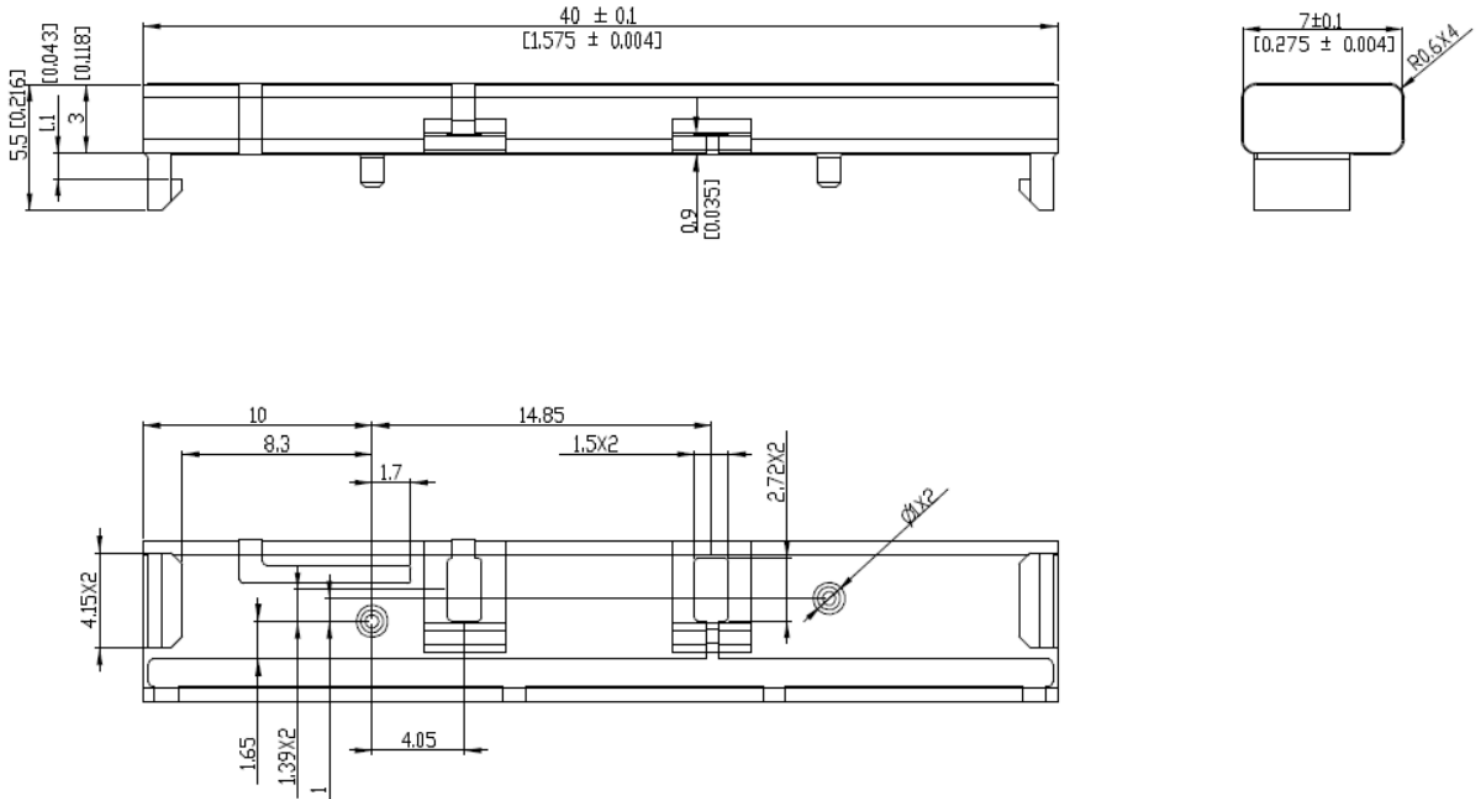
**Description: LTE SNAP-ON ANTENNA**

698-960MHz, 1427.9-1660.5MHz, 1695-2200MHz, 2300-2700MHz

**Series: Embedded Antenna**

**PART NUMBER: CLA-W3796P**

**MECHANICAL DRAWING**



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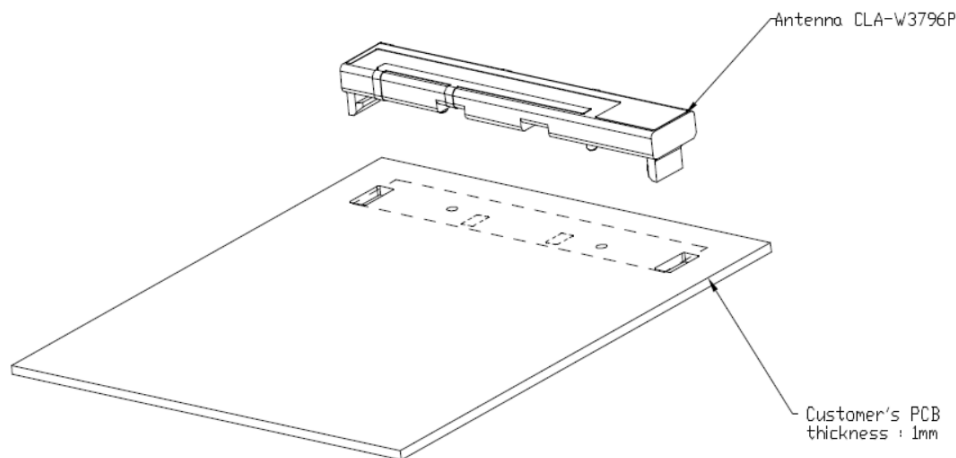
## Series: Embedded Antenna

### Description: LTE SNAP-ON ANTENNA

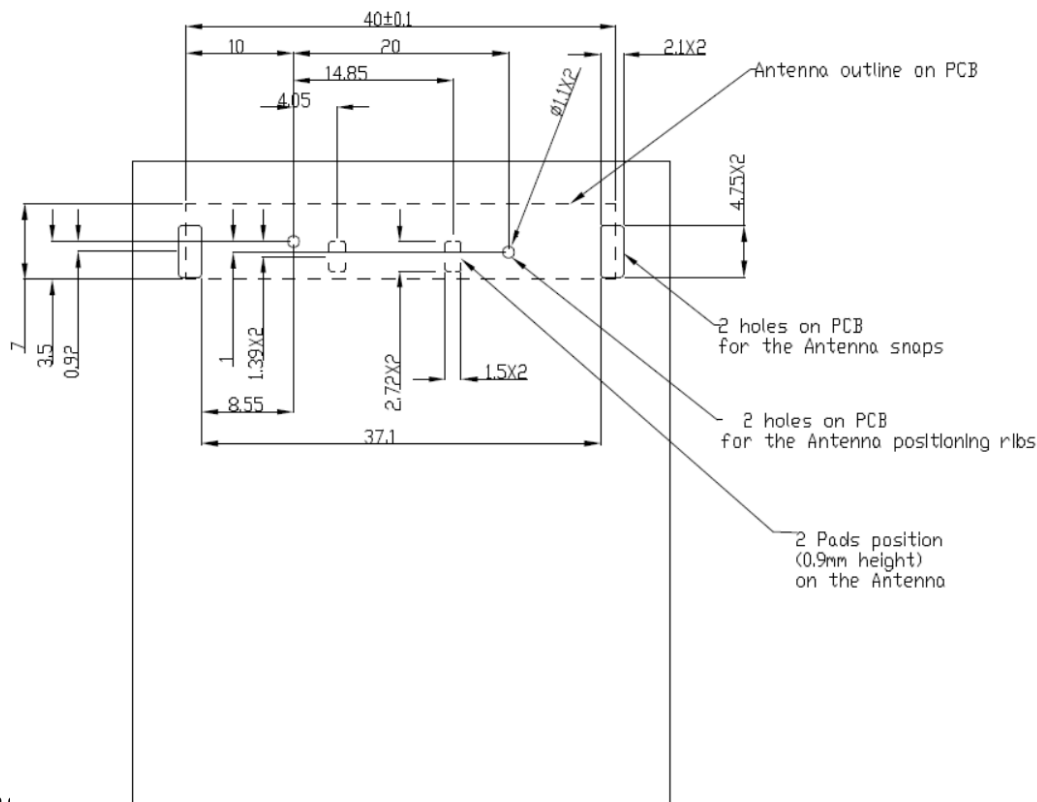
698-960MHz, 1427.9-1660.5MHz, 1695-2200MHz, 2300-2700MHz

**PART NUMBER: CLA-W3796P**

## OTHER SPECIFICATIONS



Antenna CLA-W3796P  
Mounting on customer's PCB by 2 snaps.



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In the effort to improve

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**Description: LTE SNAP-ON ANTENNA**

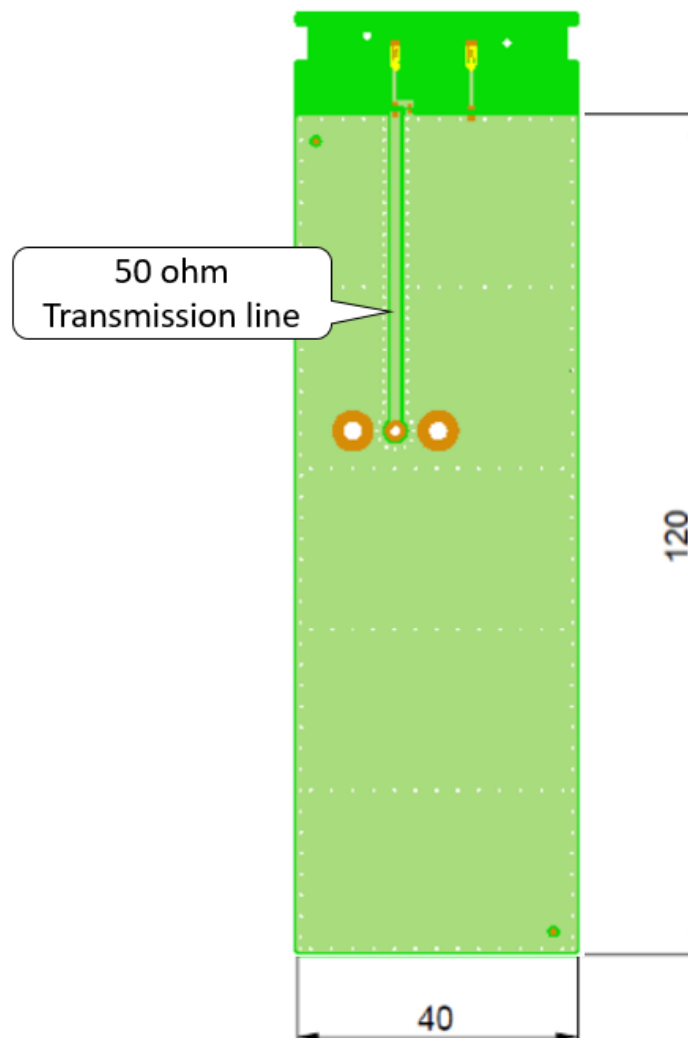
698-960MHz, 1427.9-1660.5MHz, 1695-2200MHz, 2300-2700MHz

**Series: Embedded Antenna**

**PART NUMBER: CLA-W3796P**

**OTHER SPECIFICATIONS**

Pulse reference test PCB for W3796 antenna



Ground plane dimensions

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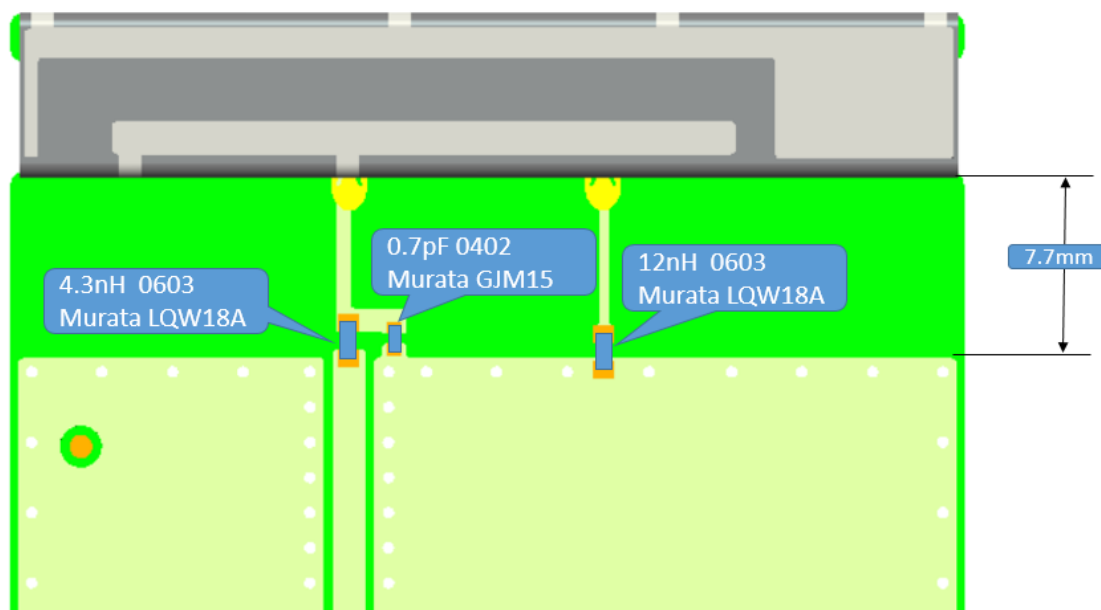
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698-960MHz, 1427.9-1660.5MHz, 1695-2200MHz, 2300-2700MHz

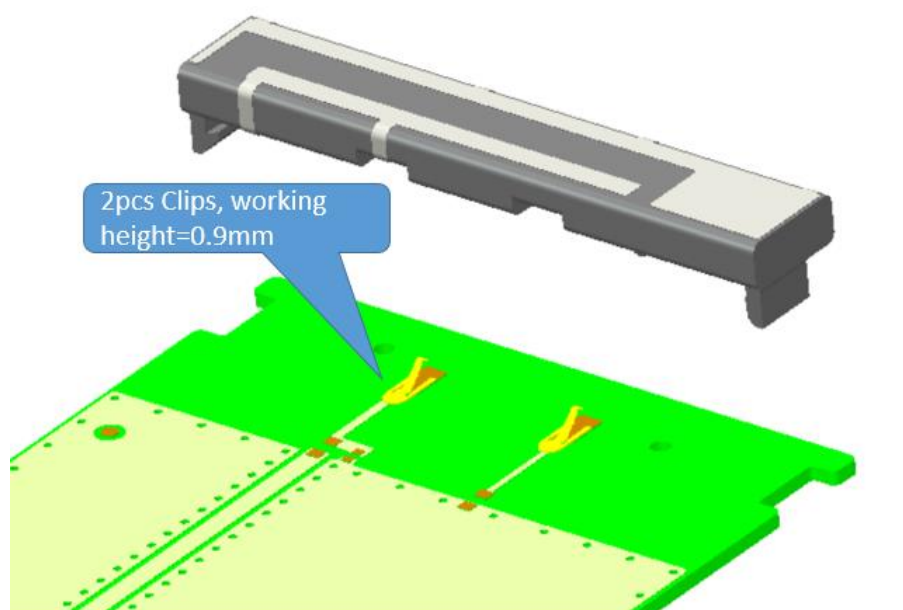
Series: Embedded Antenna

PART NUMBER: CLA-W3796P

### OTHER SPECIFICATIONS



Ground clearance dimensions (mm) and matching component values



2 clips SMT on PCB to contact the pads on the antenna.

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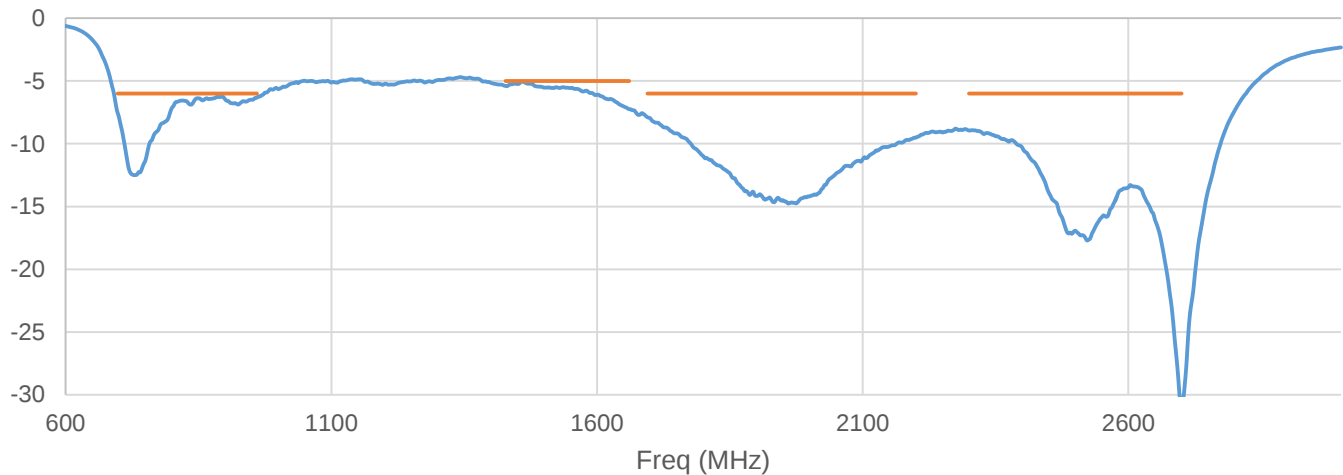
698-960MHz, 1427.9-1660.5MHz, 1695-2200MHz, 2300-2700MHz

**Series: Embedded Antenna**

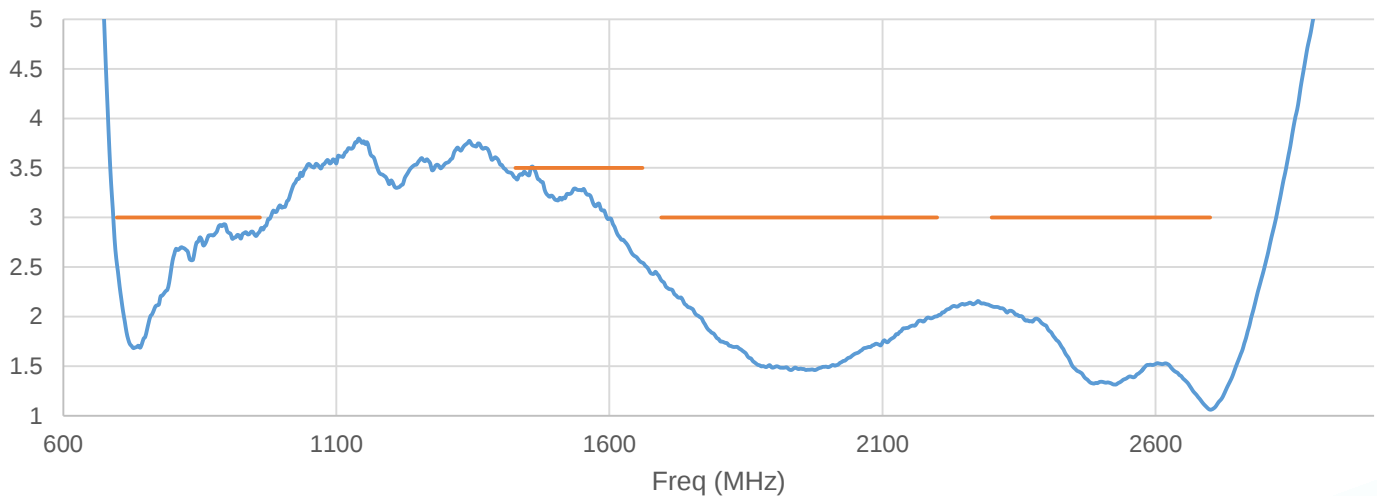
**PART NUMBER: CLA-W3796P**

**CHARTS**

Return Loss in free space



VSWR in free space



(\*) All RF parameters measured on Pulse reference test PCB

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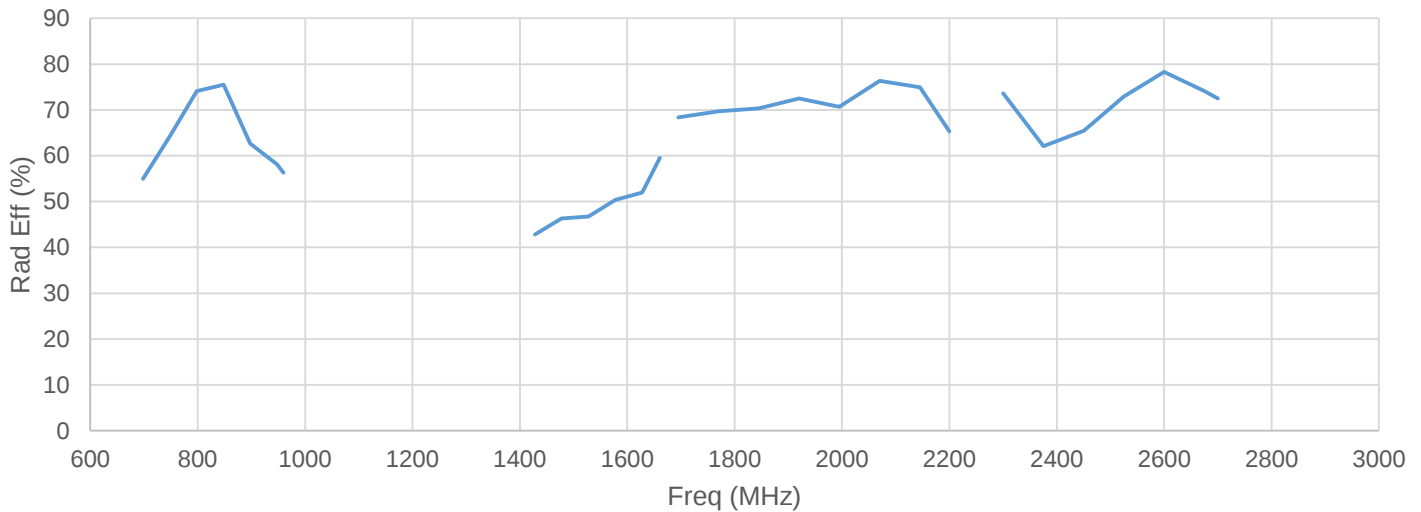
698-960MHz, 1427.9-1660.5MHz, 1695-2200MHz, 2300-2700MHz

**Series: Embedded Antenna**

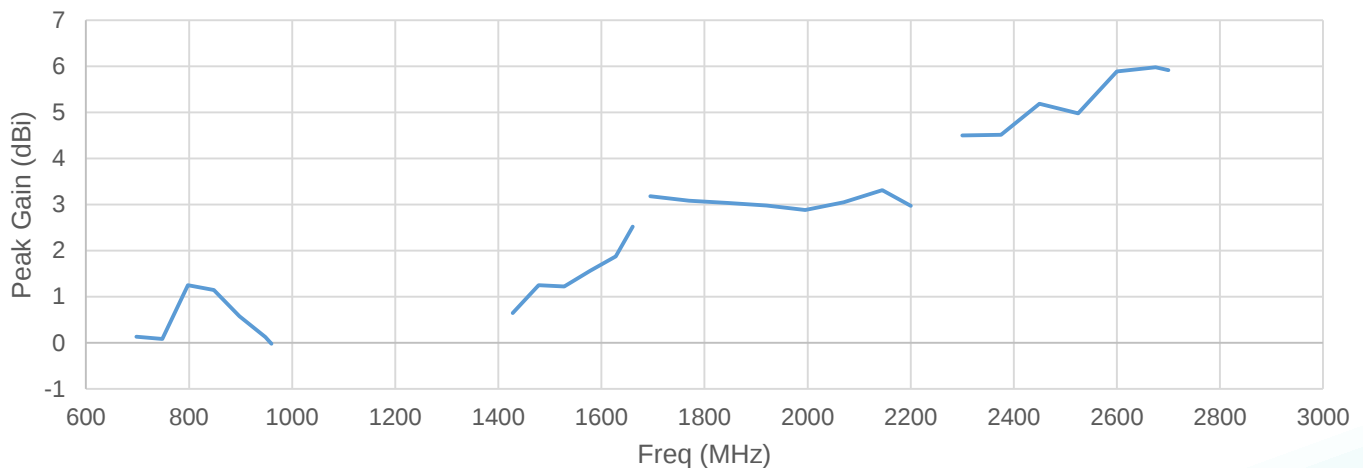
**PART NUMBER: CLA-W3796P**

## CHARTS

Efficiency in free space



Peak Gain in free space



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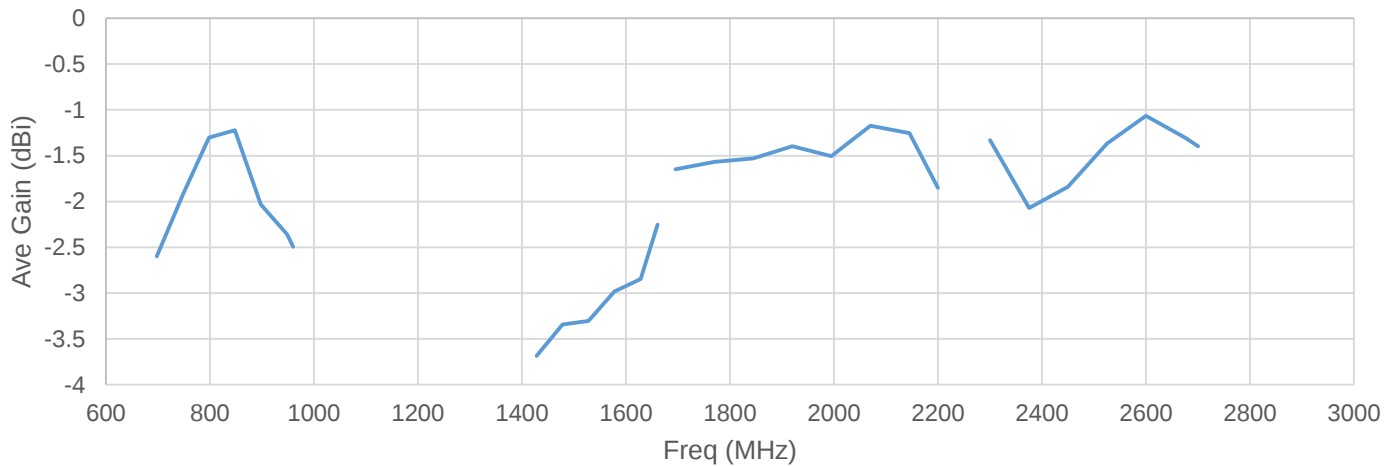
698-960MHz, 1427.9-1660.5MHz, 1695-2200MHz, 2300-2700MHz

**Series: Embedded Antenna**

**PART NUMBER: CLA-W3796P**

**CHARTS**

Average Gain in free space



(\*) All RF parameters measured on Pulse reference test PCB

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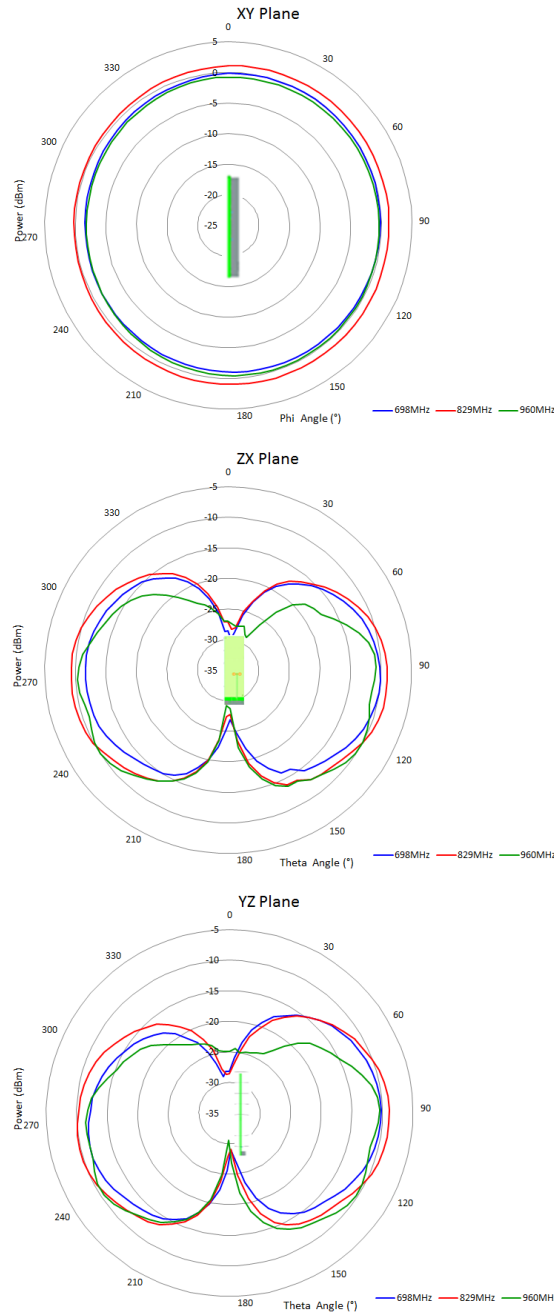
698-960MHz, 1427.9-1660.5MHz, 1695-2200MHz, 2300-2700MHz

Series: Embedded Antenna

PART NUMBER: CLA-W3796P

## CHARTS

698-960MHz



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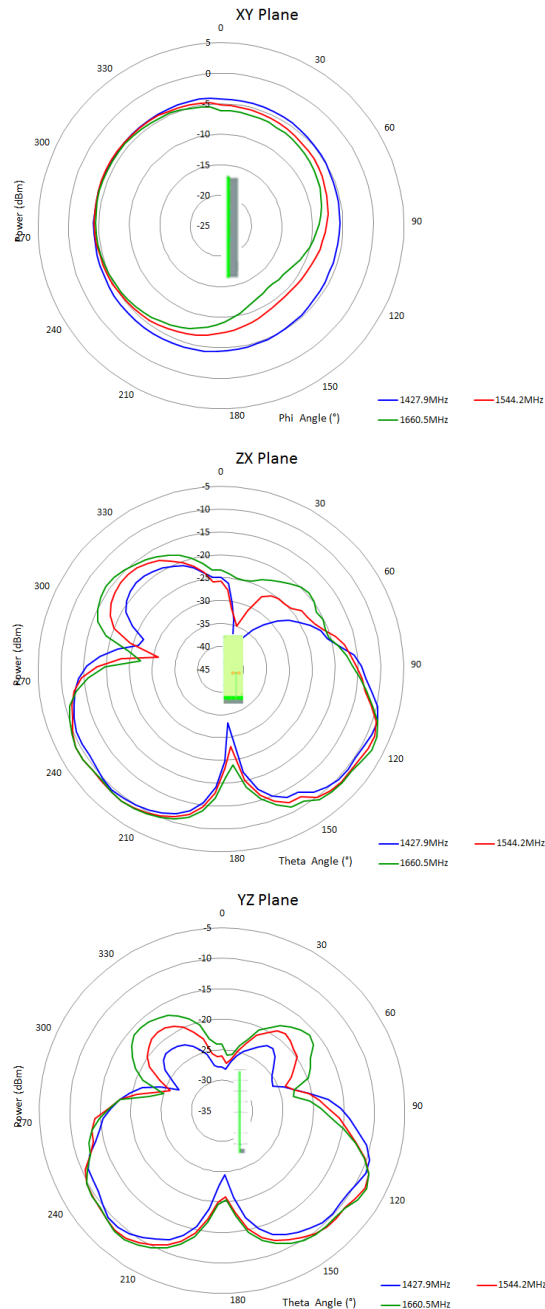
698-960MHz, 1427.9-1660.5MHz, 1695-2200MHz, 2300-2700MHz

Series: Embedded Antenna

PART NUMBER: CLA-W3796P

### CHARTS

1427.9-1660.5MHz



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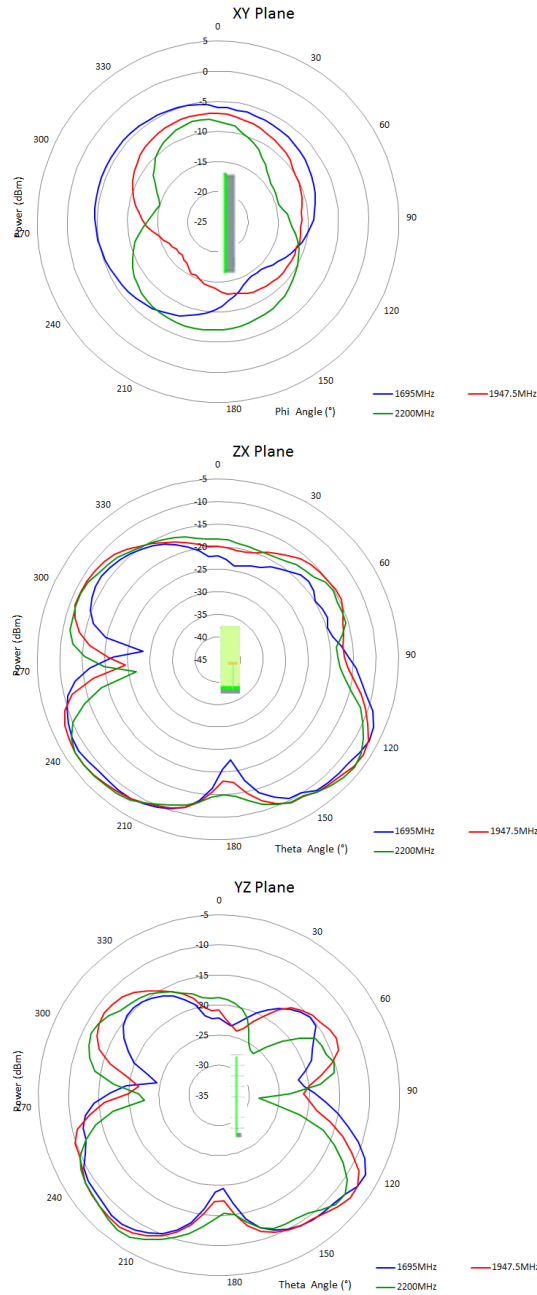
698-960MHz, 1427.9-1660.5MHz, 1695-2200MHz, 2300-2700MHz

Series: Embedded Antenna

PART NUMBER: CLA-W3796P

## CHARTS

1695-2200MHz



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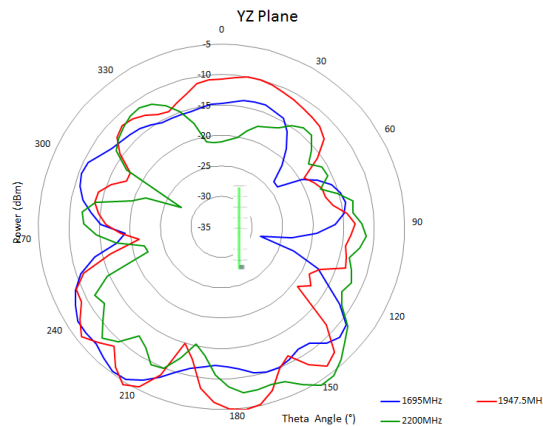
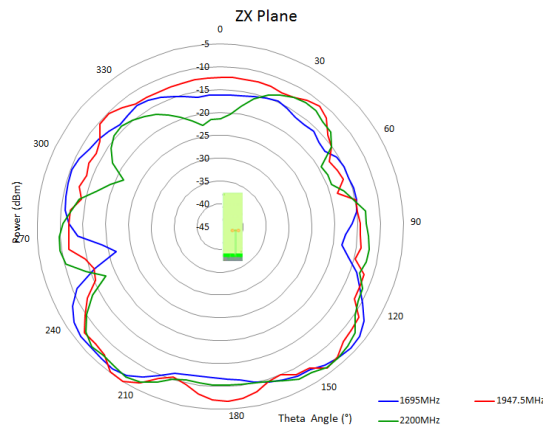
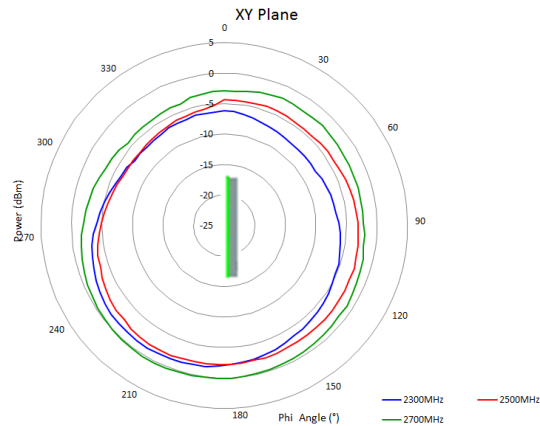
698-960MHz, 1427.9-1660.5MHz, 1695-2200MHz, 2300-2700MHz

Series: Embedded Antenna

PART NUMBER: CLA-W3796P

## CHARTS

2300-2700MHz



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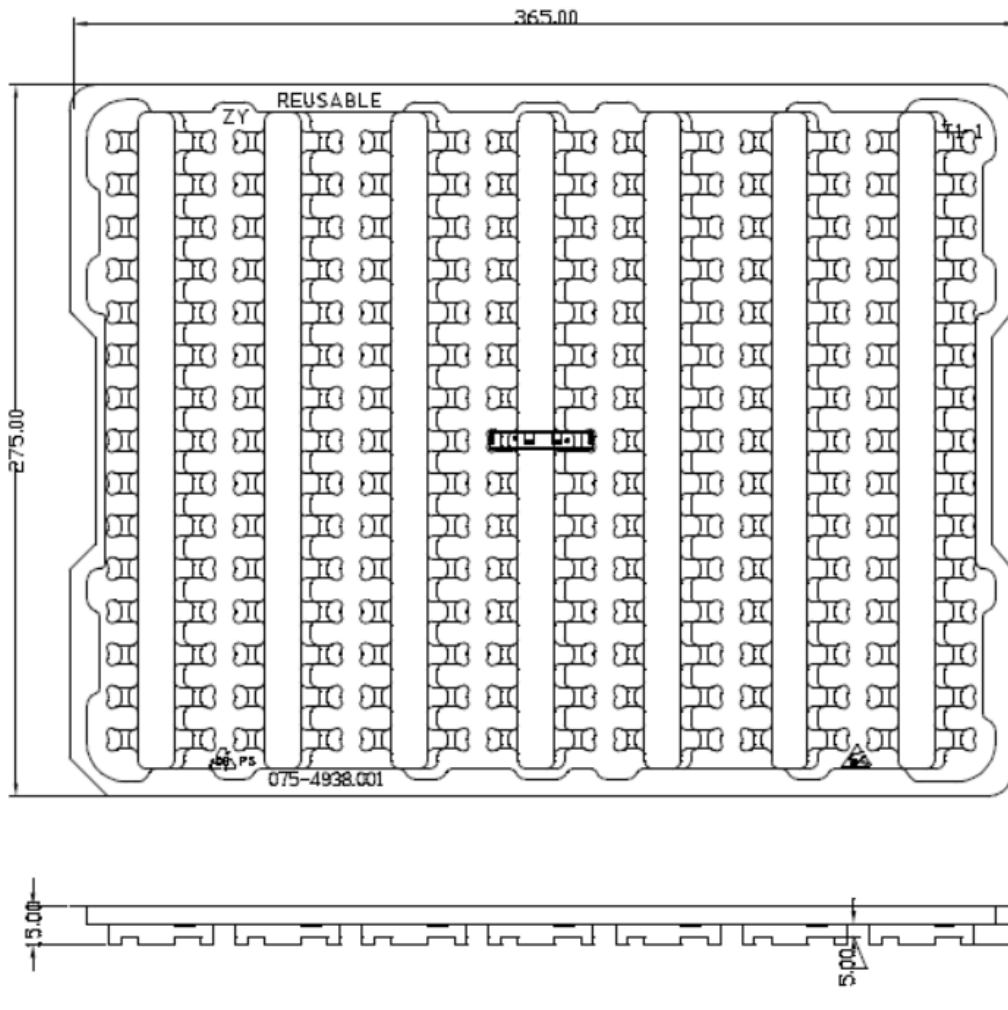
## Description: LTE SNAP-ON ANTENNA

698-960MHz, 1427.9-1660.5MHz, 1695-2200MHz, 2300-2700MHz

**Series: Embedded Antenna**

**PART NUMBER: CLA-W3796P**

## PACKAGING



105pcs/tray

**1 tray = 105 pcs Antennas**

**1 carton = 40 trays = 4200 pcs Antennas**

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