chanhvinh.com

Pulse A YAGEO Company | LARSEN Antennas

TECHNICAL DATA SHEET

Description: 698-960/1710-2170/2300-2700 MHz

Series: Direct Mount LPT Style Antenna

PART NUMBER: LPT698/2700DMN



Features:

- Frequency 698-2700MHz
- Height 77.2 mm
- Size dia. 40.9mm
- Gain 2.1 / 3.1 / 4.4 dBi
- Omnidirectional Hor plane
- N-Female connector
- IP67
- Direct mount

Applications:

- 4G LTE
- Vehicular use
- Transportation
- Utility boxes

All dimensions are in mm / inches

Issue: 1923

RoHS COMPLIANT

In the effort to improve our products, we reserve the right to make changes judged to be necessary.
CONFIDENTIAL AND PROPRIETARY INFORMATION
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

For more information:

Pulse Worldwide Headquarters
15255 Innovation Drive #100
San Diego, CA 92128
USA
Tel:1-858-674-8100

Pulse/Larsen Antennas
18110 SE 34th St Bldg 2 Suite 250
Vancouver, WA 98683
USA
Tel: 1-360-944-7551

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

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

chanhvinh.com

Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

Description: 698-960/1710-2170/2300-2700 MHz

Series: Direct Mount LPT Style Antenna

PART NUMBER: LPT698/2700DMN

ELECTRICAL SPECIFICATIONS

Antenna type	Monopole (All electrical performance measured with antenna centered on 12” x 12” Ground plane)	
Frequency	698-960/1710-2170/2300-2700	MHz
Nominal Impedance	50	Ω
VSWR (698-960)	2.5:1	Max
VSWR (1710-2700)	2:1	Max
Peak Gain (698-960)	3.1	dBi
Peak Gain (1710-2170)	4.4	dBi
Peak Gain (2300-2700)	5.0	dBi
Avg Gain @30° EL (698-960)	1.4	dBi
Avg Gain @30° EL (1710-2170)	3.2	dBi
Avg Gain @30° EL (2300-2700)	3.7	dBi
Efficiency (698-960/1710-2170/2300-2700)	75	% Min
Polarization:	Vertical	
HPBW Horizontal Plane @ 0° EL	360	°
HPBW Vertical Plane (698-960)	66	° Avg
HPBW Vertical Plane (1710-2170)	48	° Avg
HPBW Vertical Plane (2300-2700)	43	° Avg
Power withstanding	10	W
Connector type	N-Female	
Mounting	Direct mount	

In the effort to improve our products, we reserve the right to make changes judged to be necessary.
CONFIDENTIAL AND PROPRIETARY INFORMATION
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

RoHS COMPLIANT

chanhvinh.com

Pulse A YAGEO Company | LARSEN Antennas

TECHNICAL DATA SHEET

Description: 698-960/1710-2170/2300-2700 MHz

Series: Direct Mount LPT Style Antenna

PART NUMBER: LPT698/2700DMN

MECHANICAL SPECIFICATIONS

Plastic radome	UL746C Material	.110 thick min
Flammability	UL94 V-0	
Color	Black	
Ingress Protection	IP67	
Weight	120	g
Wind-loading	125	Mph
Overall length	3.04	INCHES

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40 ~ +85° C
Storage Temperature	-40 ~ +85° C
Ingress Protection	IP67
RoHS Compliant	Yes

In the effort to improve our products, we reserve the right to make changes judged to be necessary.
CONFIDENTIAL AND PROPRIETARY INFORMATION
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

RoHS COMPLIANT

chanhvinh.com

Pulse A YAGEO Company | LARSEN Antennas

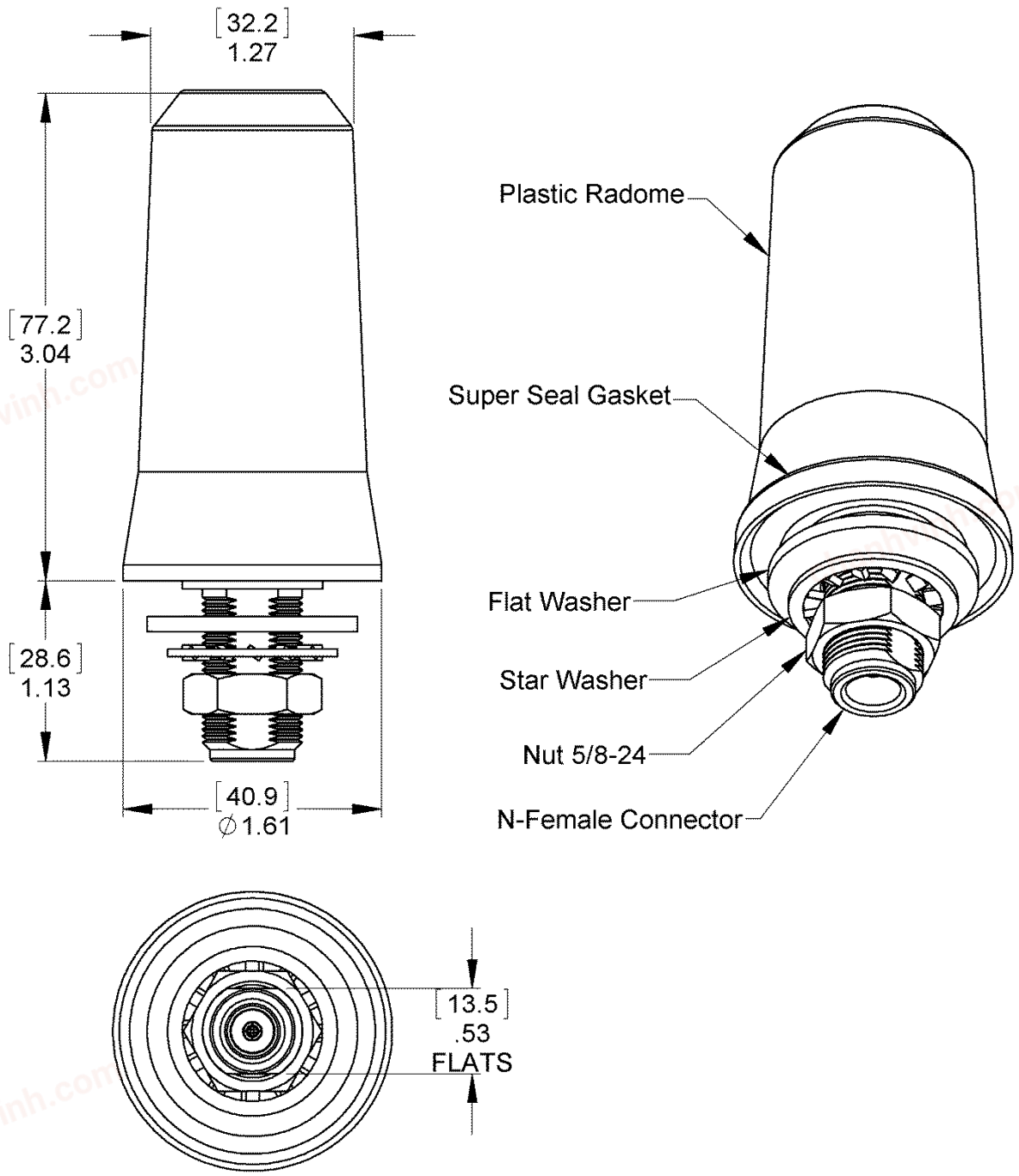
TECHNICAL DATA SHEET

Description: 698-960/1710-2170/2300-2700 MHz

Series: Direct Mount LPT Style Antenna

PART NUMBER: LPT698/2700DMN

MECHANICAL DRAWING



Issue: 1923

In the effort to improve our products, we reserve the right to make changes judged to be necessary.
CONFIDENTIAL AND PROPRIETARY INFORMATION
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

RoHS COMPLIANT

chanhvinh.com

Pulse A YAGEO Company | LARSEN Antennas

TECHNICAL DATA SHEET

Description: 698-960/1710-2170/2300-2700 MHz

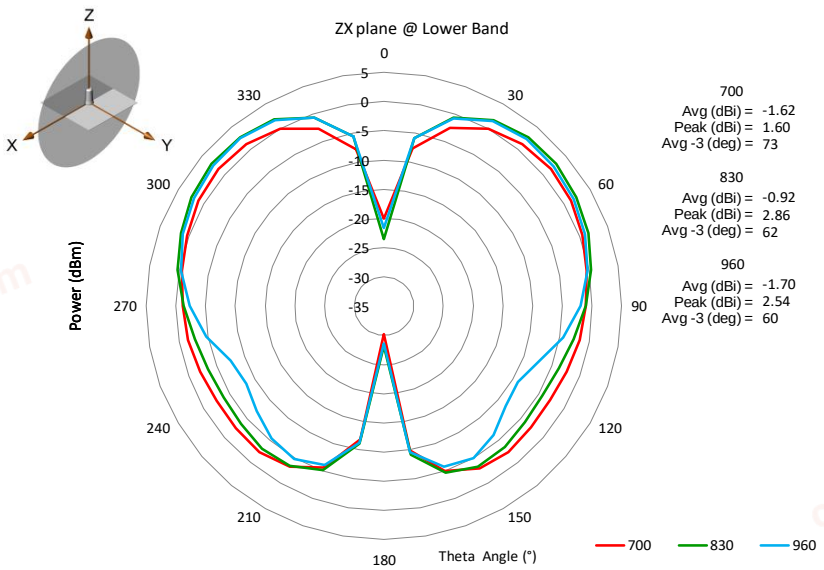
Series: Direct Mount LPT Style Antenna

PART NUMBER: LPT698/2700DMN

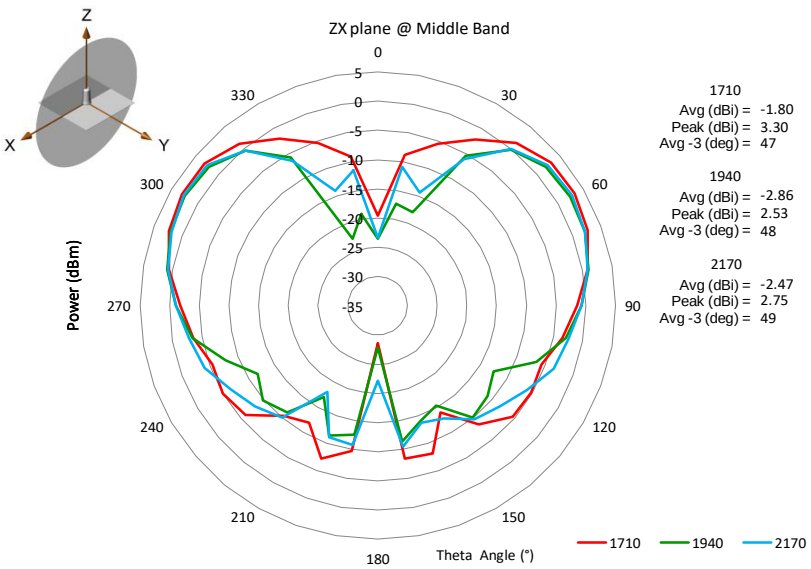
CHARTS

Charts - All radiation patterns, gain, VSWR measured with Antenna mounted on center of 12” x 12” Ground plane

Vertical Plane



Vertical Plane



In the effort to improve our products, we reserve the right to make changes judged to be necessary.
CONFIDENTIAL AND PROPRIETARY INFORMATION
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

RoHS COMPLIANT

chanhvinh.com

Pulse A YAGEO Company | LARSEN Antennas

TECHNICAL DATA SHEET

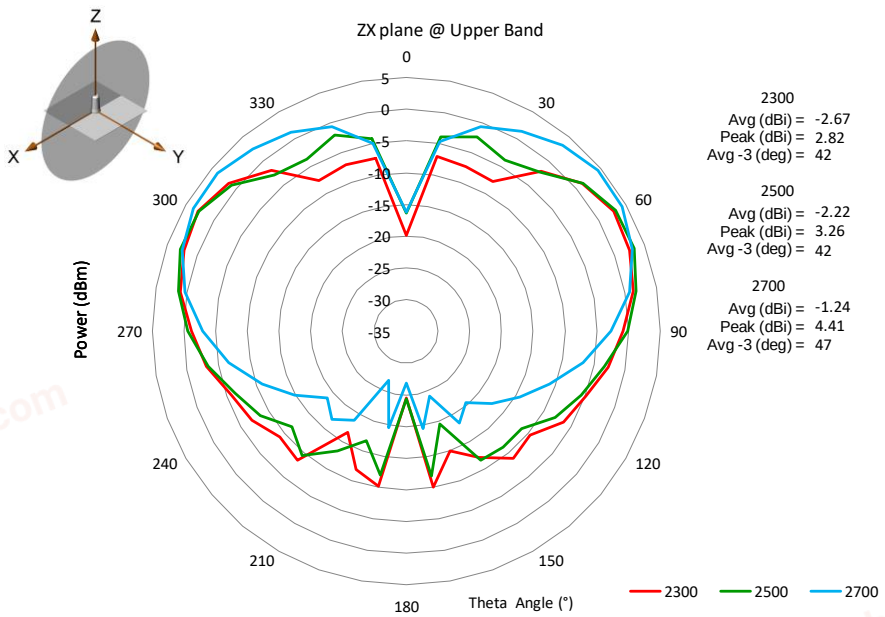
Description: 698-960/1710-2170/2300-2700 MHz

Series: Direct Mount LPT Style Antenna

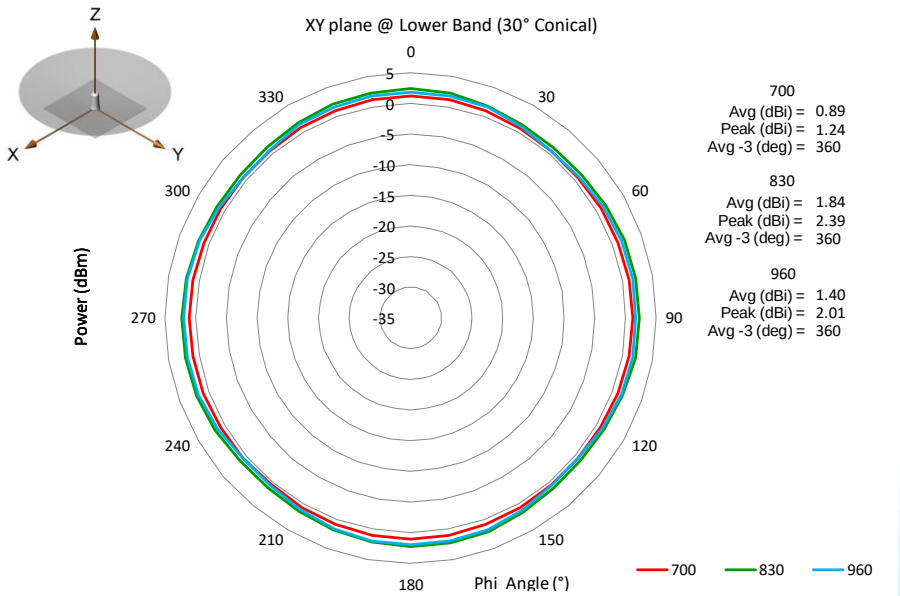
PART NUMBER: LPT698/2700DMN

CHARTS

Vertical Plane



Horizontal Plane



In the effort to improve our products, we reserve the right to make changes judged to be necessary.
CONFIDENTIAL AND PROPRIETARY INFORMATION
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

RoHS COMPLIANT

chanhvinh.com

Pulse A YAGEO Company | LARSEN Antennas

TECHNICAL DATA SHEET

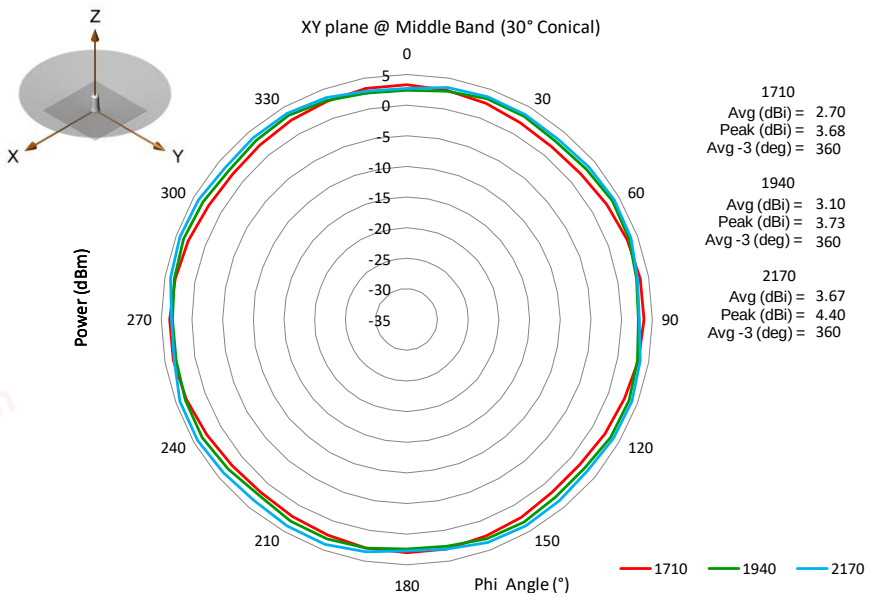
Description: 698-960/1710-2170/2300-2700 MHz

Series: Direct Mount LPT Style Antenna

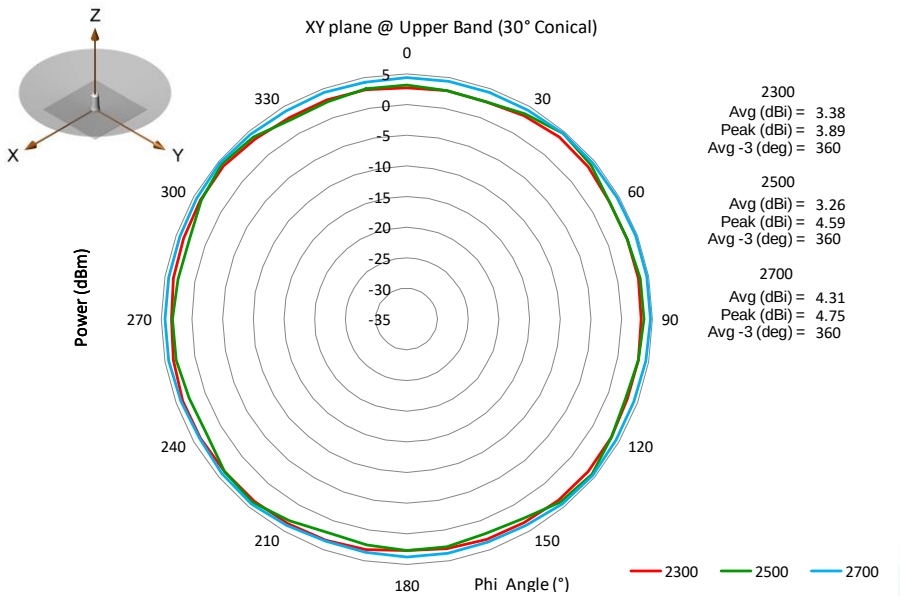
PART NUMBER: LPT698/2700DMN

CHARTS

Horizontal Plane



Horizontal plane



In the effort to improve our products, we reserve the right to make changes judged to be necessary.
CONFIDENTIAL AND PROPRIETARY INFORMATION
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

RoHS COMPLIANT

chanhvinh.com

Pulse A YAGEO Company | LARSEN Antennas

TECHNICAL DATA SHEET

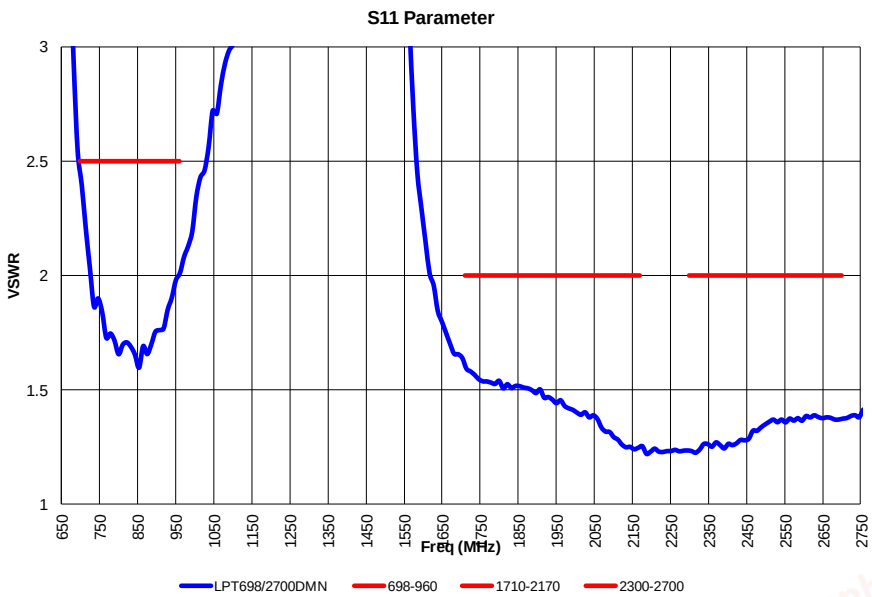
Description: 698-960/1710-2170/2300-2700 MHz

Series: Direct Mount LPT Style Antenna

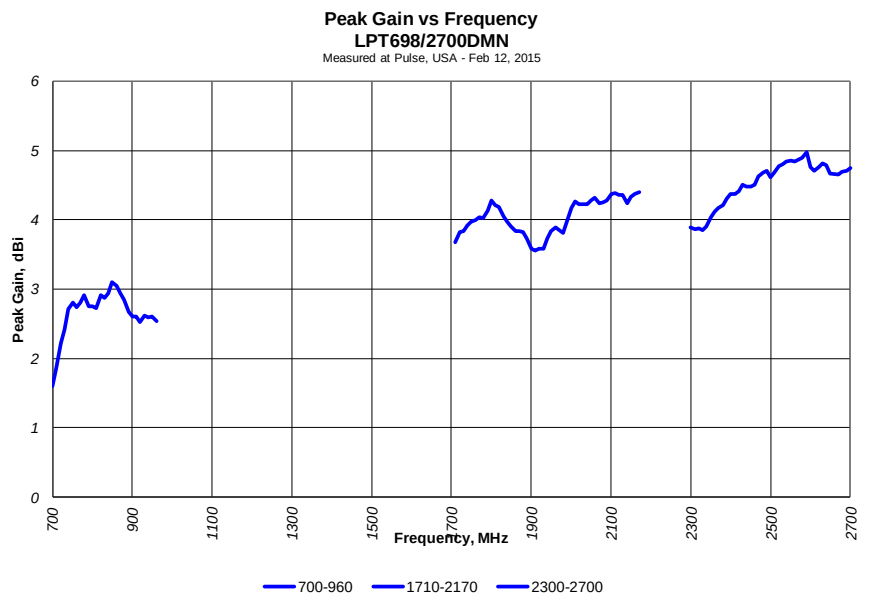
PART NUMBER: LPT698/2700DMN

CHARTS

VSWR



Peak Gain



Issue: 1923

In the effort to improve our products, we reserve the right to make changes judged to be necessary.
CONFIDENTIAL AND PROPRIETARY INFORMATION
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

RoHS COMPLIANT

chanhvinh.com

Pulse A YAGEO Company | LARSEN Antennas

TECHNICAL DATA SHEET

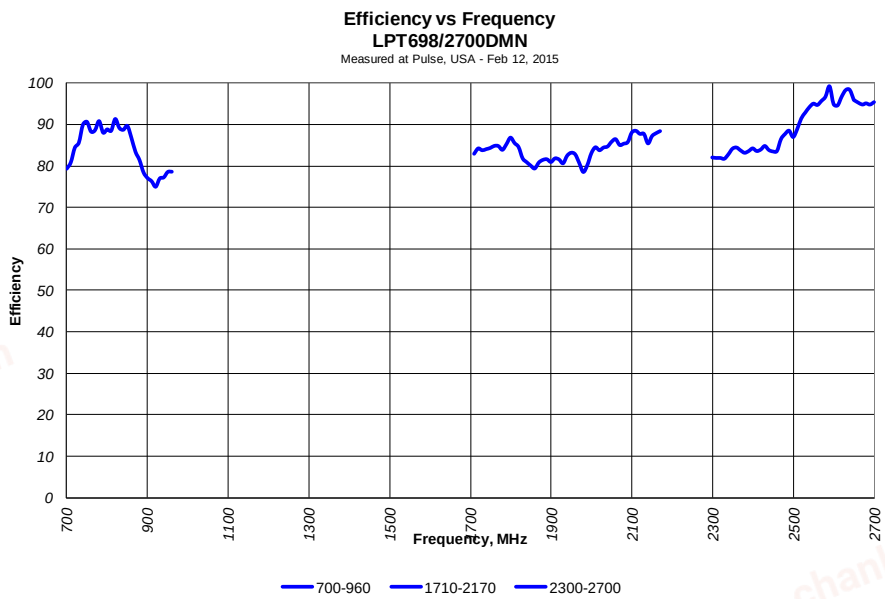
Description: 698-960/1710-2170/2300-2700 MHz

Series: Direct Mount LPT Style Antenna

PART NUMBER: LPT698/2700DMN

CHARTS

Efficiency



In the effort to improve our products, we reserve the right to make changes judged to be necessary.
CONFIDENTIAL AND PROPRIETARY INFORMATION
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

RoHS COMPLIANT

chanhvinh.com

Pulse A YAGEO Company | LARSEN Antennas

TECHNICAL DATA SHEET

Description: 698-960/1710-2170/2300-2700 MHz

Series: Direct Mount LPT Style Antenna

PART NUMBER: LPT698/2700DMN

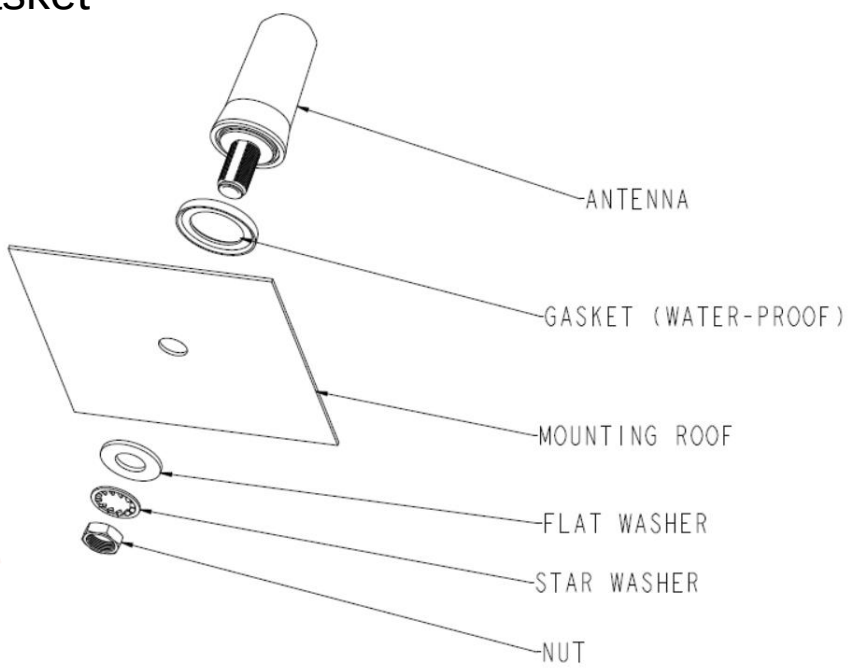
PACKAGING

- 1 antenna packed in a plastic bag
- 1 label on each product with part number
- 48pcs pre box
- Gasket and O-Ring packed in a plastic bag for alternative seals.

ASSEMBLY

Direct mounting, 15.9mm (0.625”) hole required. The mounting roof thickness should be less than 5mm (0.2”). There are two options to make the antenna water-proof when assembling.

Option 1: Gasket



In the effort to improve our products, we reserve the right to make changes judged to be necessary.
CONFIDENTIAL AND PROPRIETARY INFORMATION
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

RoHS COMPLIANT

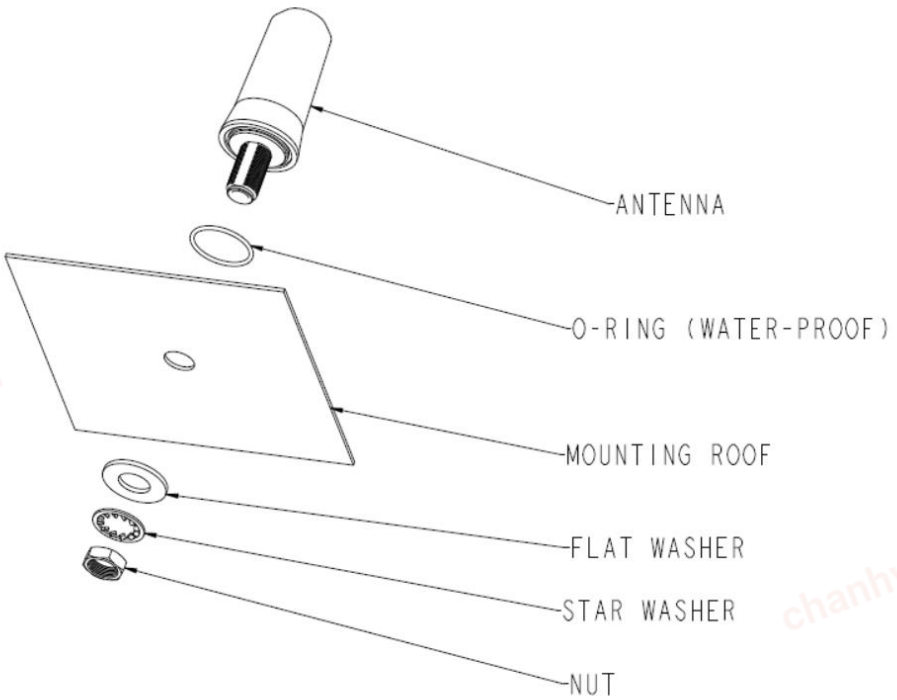
chanhvinh.com

Description: 698-960/1710-2170/2300-2700 MHz

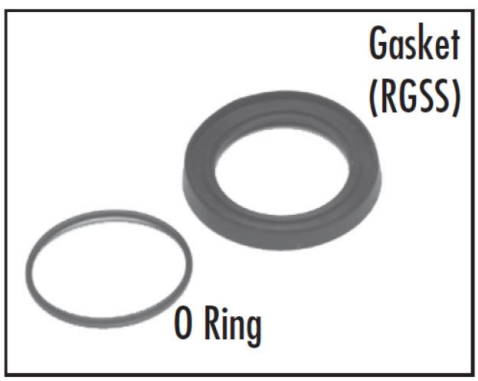
Series: Direct Mount LPT Style Antenna

PART NUMBER: LPT698/2700DMN

Option 2: O-Ring



Note: Use one or other for mounting the antenna --- they cannot be used together. The RGSS is typically used for permanent mounts.



In the effort to improve our products, we reserve the right to make changes judged to be necessary.
CONFIDENTIAL AND PROPRIETARY INFORMATION
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.