PulseLARSEN Antennas

TECHNICAL DATA SHEET

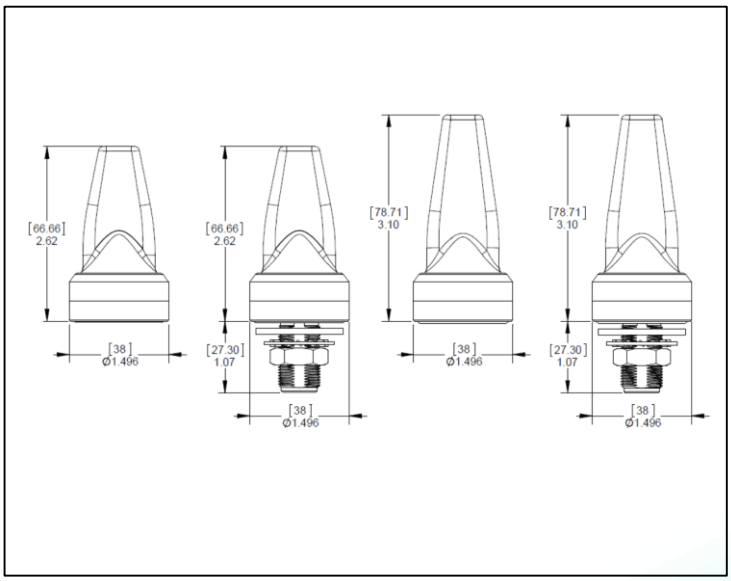
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

Features:

- SLPT in Black and White
- Short, slim profile without sacrificing RF or mechanical performance
- Direct and NMO mount models
- IP67 Weatherproof



Applications:

- Models supporting :
  - Public Safety, LMR
  - Wi-Fi,
  - 3G/4G LTE,
  - ISM
  - DSRC
- Bus/Rail/Transit
- IoT – Vending, metering and other industrial applications
- Outdoor Vehicular

All dimensions are in mm / inches

Issue: 1829

RoHS COMPLIANT

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Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.
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Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998

PulseLARSEN Antennas

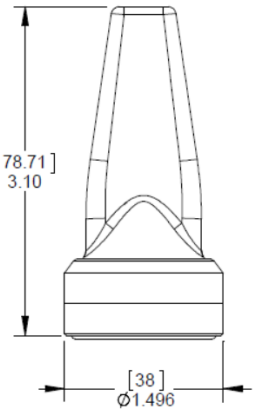
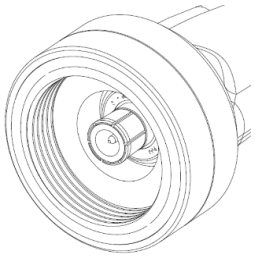
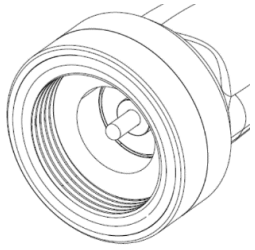
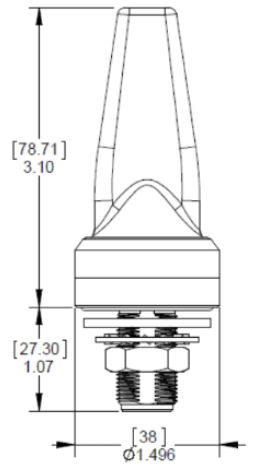
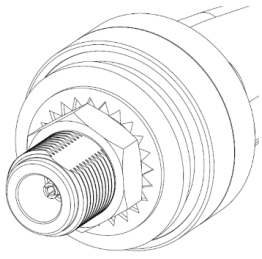
TECHNICAL DATA SHEET

Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

This document covers all product variants of the following product family:

Project	Color	Frequency	Size	Fixing System Connector
SLPT698/2170NMOHFW	White	698-960MHz 1710-2700MHz		 NMOHF NMO + HF Connector
SLPT698/2170NMOHF	Black			
SLPT698/960NMOW	White	698-960MHz		 NMO + Pogo Pin Connector
SLPT698/960NMO	Black			
SLPT806NMOW	White	806-960MHz		
SLPT806NMO	Black			
SLPT698/869DMNW	White	698-869MHz		 Direct Mount N Female Connector (Screw 5/8-24 UNEF 2A)
SLPT698/869DMN	Black			
SLPT806DMNW	White	806-960MHz		
SLPT806DMN	Black			
SLPT698/2170DMNW	White	698-960MHz 1710-2700MHz		
SLPT698/2170DMN	Black			

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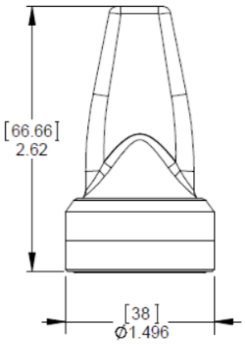
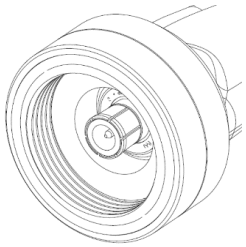
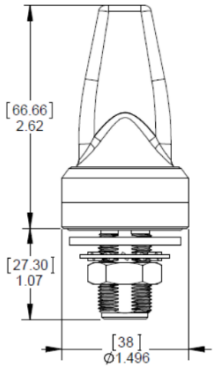
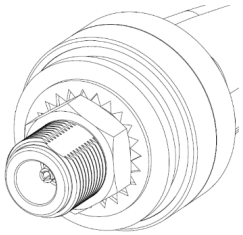
RoHS COMPLIANT

Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

This document covers all product variants of the following product family:

Project	Color	Frequency	Size	Fixing System Connector
SLPT2400NMOHFW	White	2400-2500MHz		 NMOHF NMO + HF Connector
SLPT2400NMOHF	Black			
SLPT4900NMOHFW	White	4900-6000MHz		
SLPT4900NMOHF	Black			
SLPT245NMOHFW	White	2400-2500MHz 4900-6000MHz		
SLPT2400/5900NMOHF	Black			
SLPT2400DMNW	White	2400-2500MHz		 Direct Mount N Female Connector (Screw 5/8-24 UNEF 2A)
SLPT2400DMN	Black			
SLPT4900DMNW	White	4900-6000MHz		
SLPT4900DMN	Black			
SLPT2400/5900DMNW	White	2400-2500MHz 4900-6000MHz		
SLPT2400/5900DMN	Black			

P.S.: For DMN fixing system, it requires a 5/8” (16mm) hole in the mounting surface.

Remove any burrs, particularly on the Roof under side of the hole. Remove paint in a narrow ring around the hole. Metal-to-metal contact between the mounting surface and mount is essential for best performance.

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RoHS COMPLIANT

Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

ELECTRICAL SPECIFICATIONS

Project	Frequency	VSWR	Peak Gain	Efficiency	Power Handling
SLPT698/2170NMOHFW	698-960MHz 1710-2700MHz	3.3:1(0.698-0.96GHz) 2:1(1.71-2.5GHz) 2.2:1(2.5-2.7GHz)	3.52dBi(0.698-0.96GHz) 4.95dBi(1.71-2.69GHz)	72% 71%	40W(100% duty cycle) 50W(50% duty cycle)
SLPT698/2170NMOHF					
SLPT698/960NMOW	698-960MHz	2:1	3.29dBi	68%	35W(100% duty cycle) 40W(50% duty cycle)
SLPT698/960NMO					
SLPT806NMOW	806-960MHz	2:1	3.18dBi	67%	35W(100% duty cycle) 40W(50% duty cycle)
SLPT806NMO					
SLPT698/869DMNW	698-869MHz	2:1	3.26dBi	72%	30W(100% duty cycle) 40W(50% duty cycle)
SLPT698/869DMN					
SLPT806DMNW	806-960MHz	2:1	3.05dBi	70%	40W(100% duty cycle) 45W(50% duty cycle)
SLPT806DMN					
SLPT698/2170DMNW	698-960MHz 1710-2700MHz	3.3:1(0.698-0.96GHz) 2:1(1.71-2.5GHz) 2.2:1(2.5-2.7GHz)	3.51dBi(0.698-0.96GHz) 4.81dBi(1.71-2.69GHz)	76% 67%	40W(100% duty cycle) 50W(50% duty cycle)
SLPT698/2170DMN					

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RoHS COMPLIANT

Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

ELECTRICAL SPECIFICATIONS

Project	Frequency	VSWR	Peak Gain	Efficiency	Power Handling
SLPT2400NMOHFW	2400-2500MHz	2:1	5.06dBi	79%	35W(100% duty cycle)
SLPT2400NMOHF					45W(50% duty cycle)
SLPT4900NMOHFW	4900-6000MHz	2.2:1	5.09dBi	71%	35W(100% duty cycle)
SLPT4900NMOHF					45W(50% duty cycle)
SLPT245NMOHFW	2400-2500MHz 4900-6000MHz	2:1(2.4-2.5GHz) 2.2:1(4.9-6GHz)	5.06dBi 5.09dBi	79% 71%	35W(100% duty cycle)
SLPT2400/5900NMOHF					45W(50% duty cycle)
SLPT2400DMNW	2400-2500MHz	2:1	4.78dBi	75%	35W(100% duty cycle)
SLPT2400DMN					45W(50% duty cycle)
SLPT4900DMNW	4900-6000MHz	2.2:1	5.14dBi	73%	35W(100% duty cycle)
SLPT4900DMN					45W(50% duty cycle)
SLPT2400/5900DMNW	2400-2500MHz 4900-6000MHz	2:1(2.4-2.5GHz) 2.2:1(4.9-6GHz)	4.78dBi 5.14dBi	79% 73%	35W(100% duty cycle)
SLPT2400/5900DMN					45W(50% duty cycle)

Nominal Impedance	50Ω
Radiation Pattern	omni
Polarization:	Vertical

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MECHANICAL SPECIFICATIONS

Plastic radome	PC
Color	White / Black
Ingress Protection	IP67

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40 ~ +85° C

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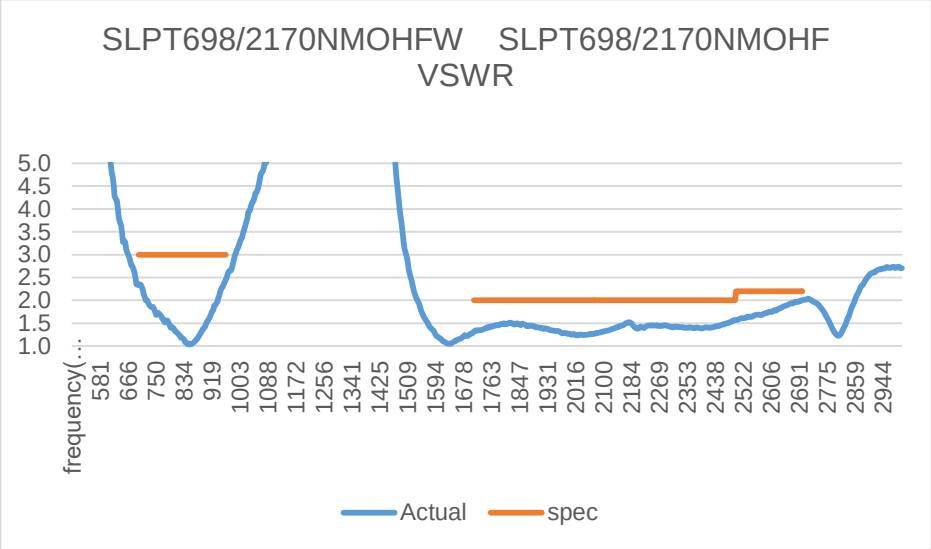
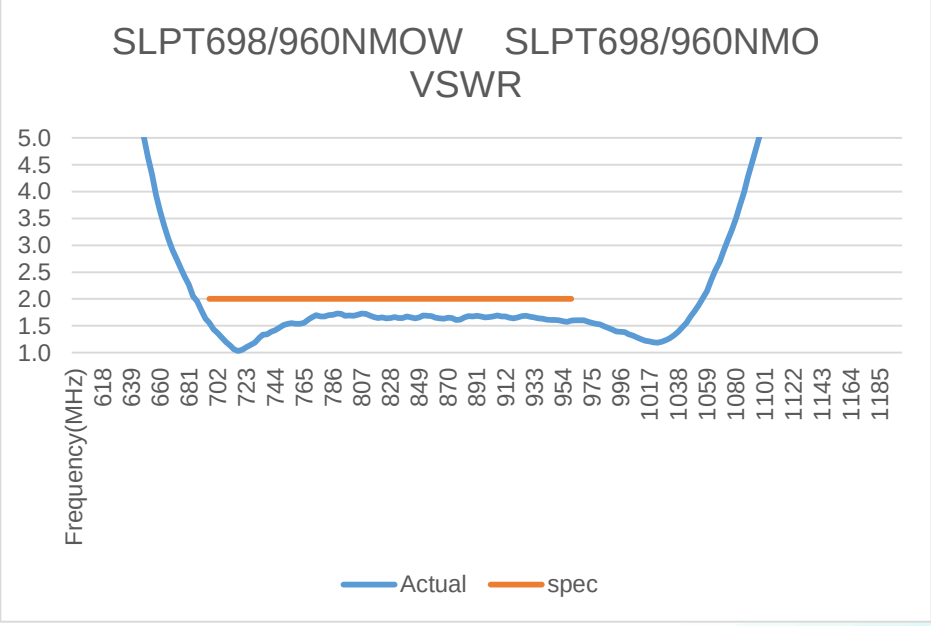
CHARTS

VSWR





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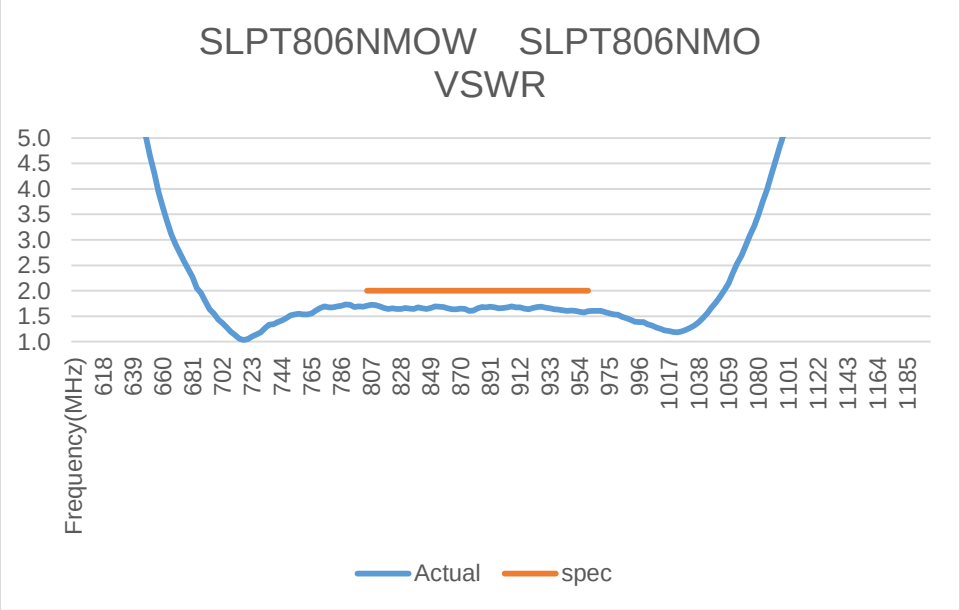
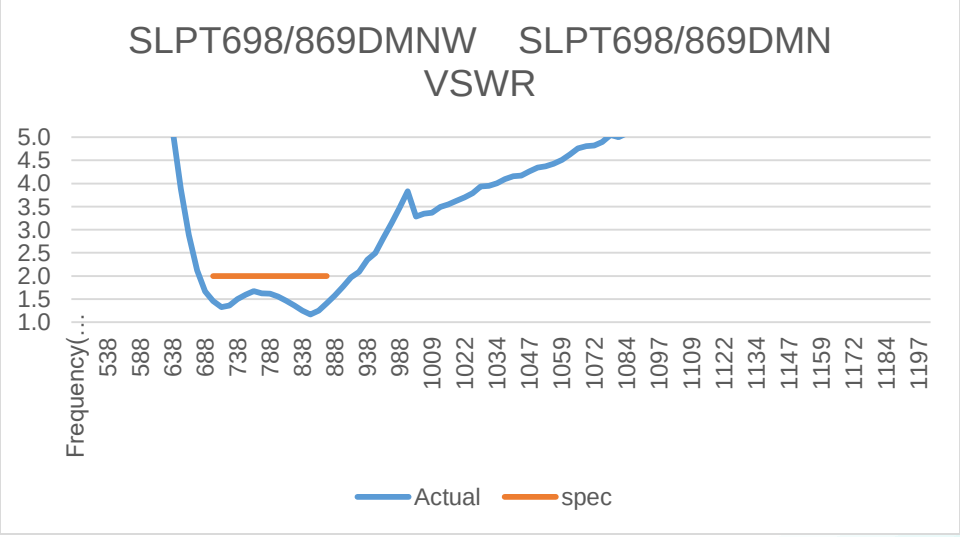
CHARTS

VSWR





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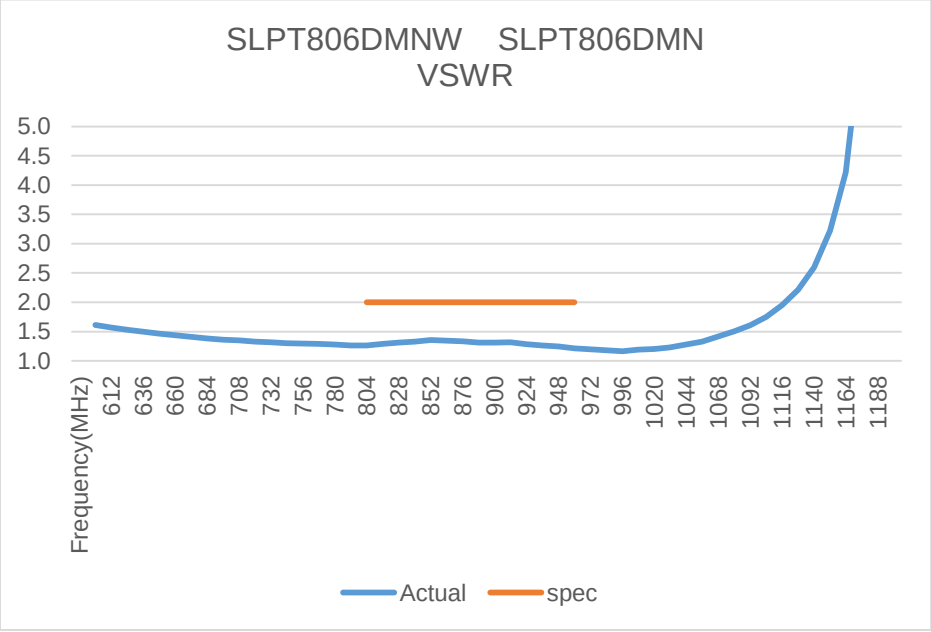

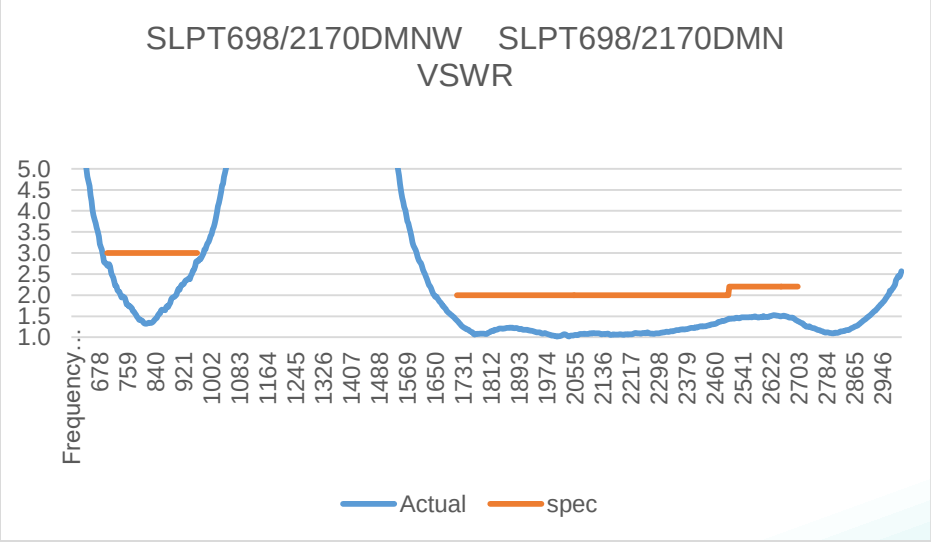

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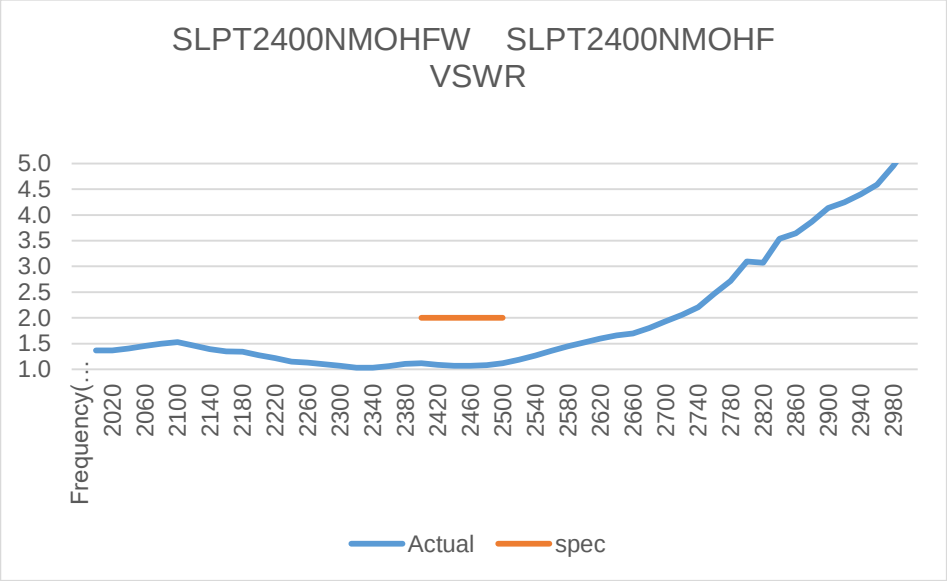

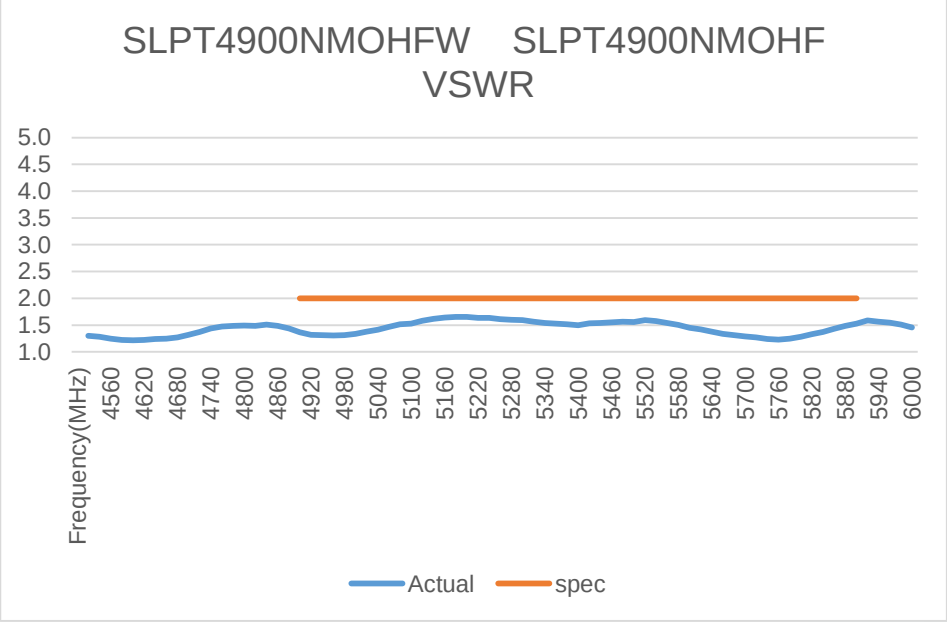

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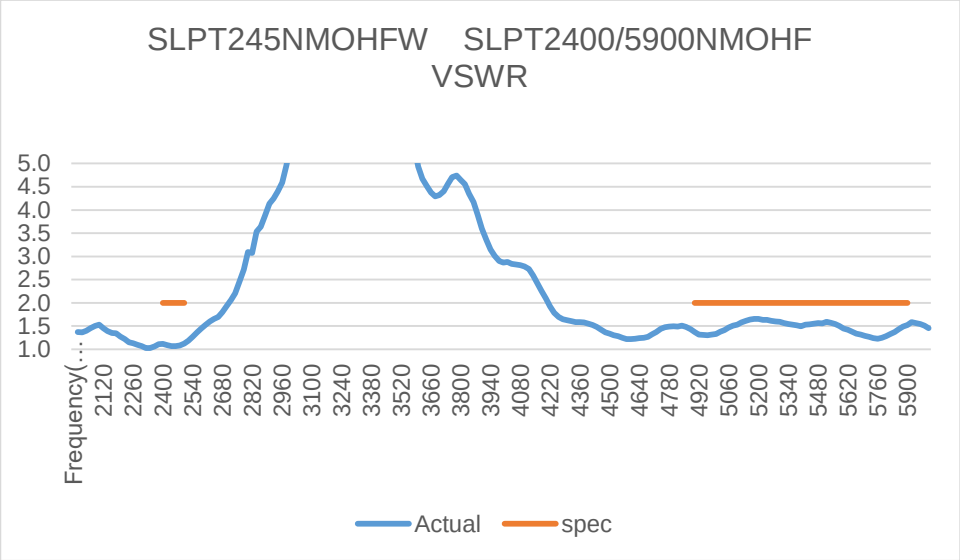
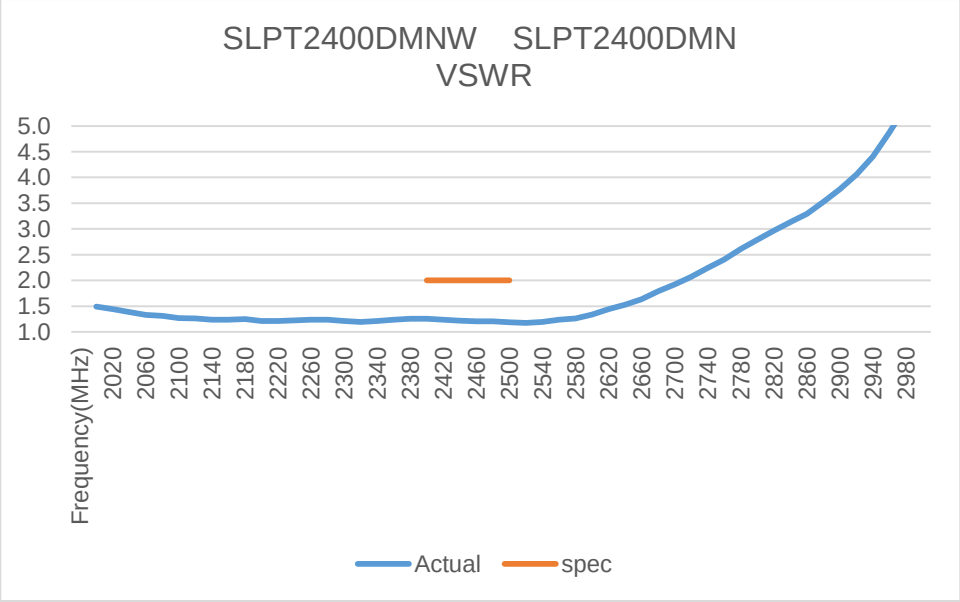
VSWR





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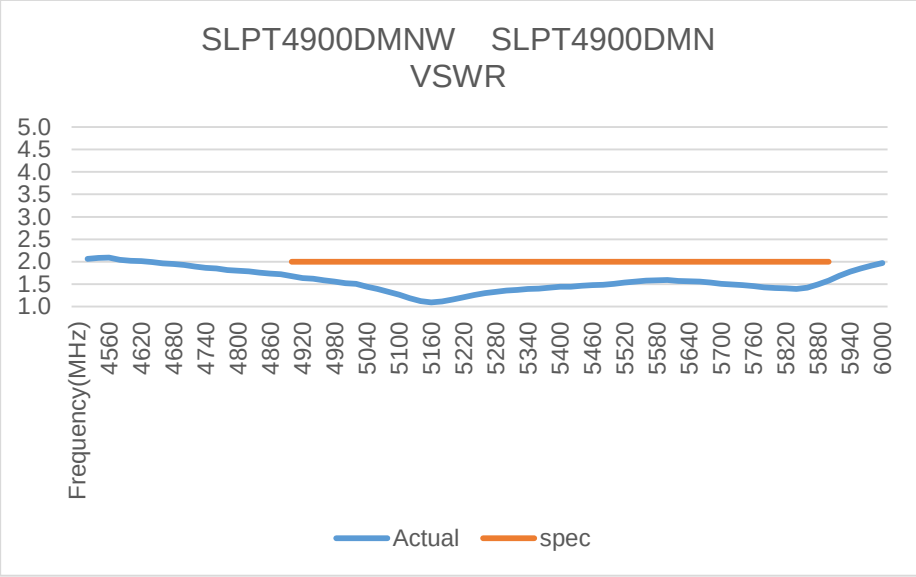
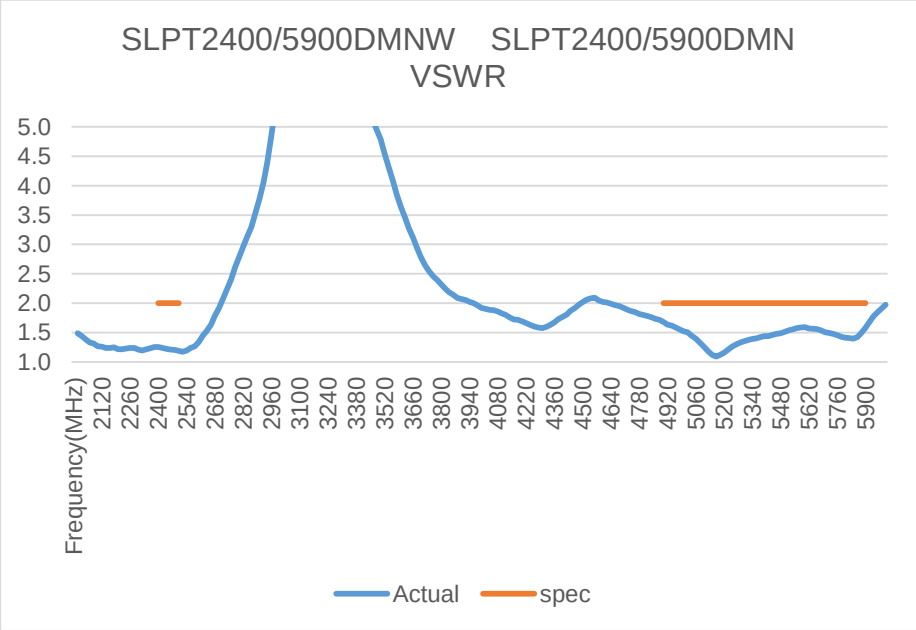
VSWR





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Description: ON-VEHICLE LOW PROFILE ANTENNA

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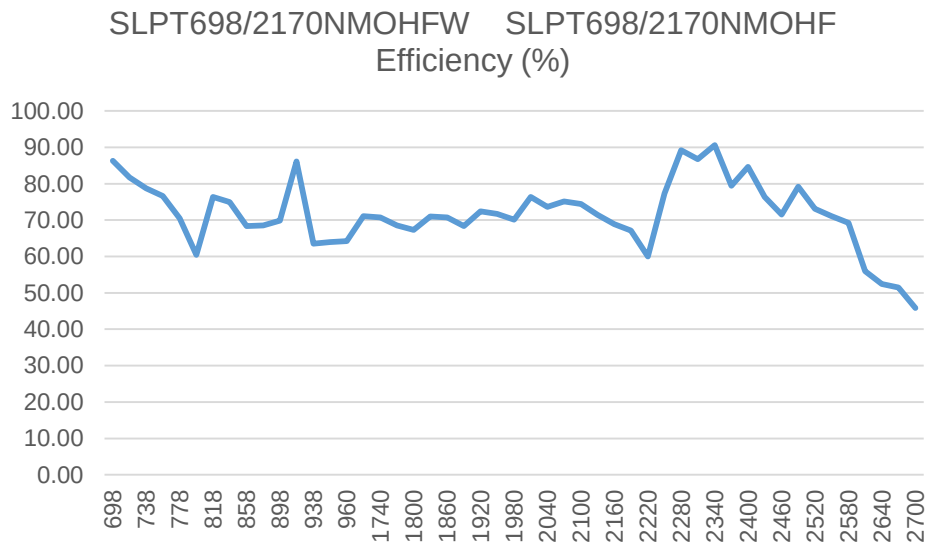
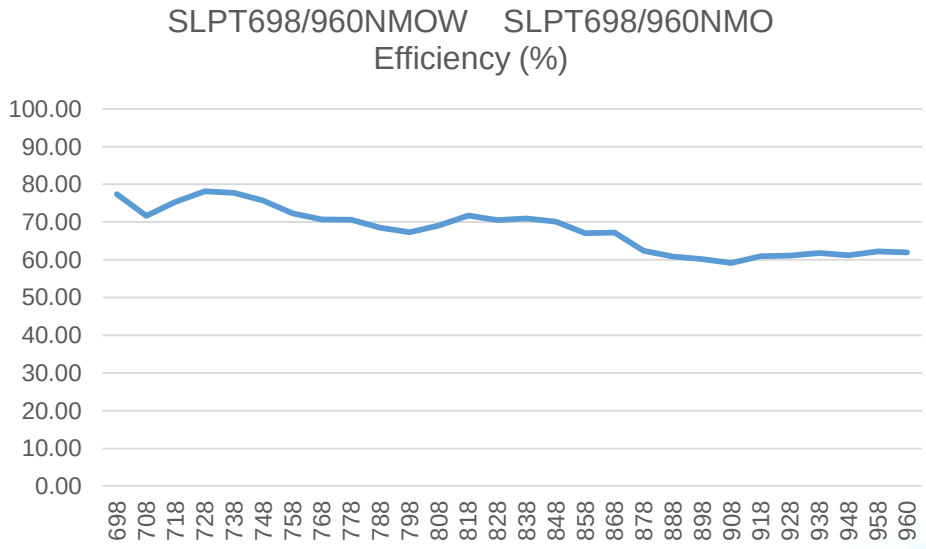
CHARTS

Efficiency(%)





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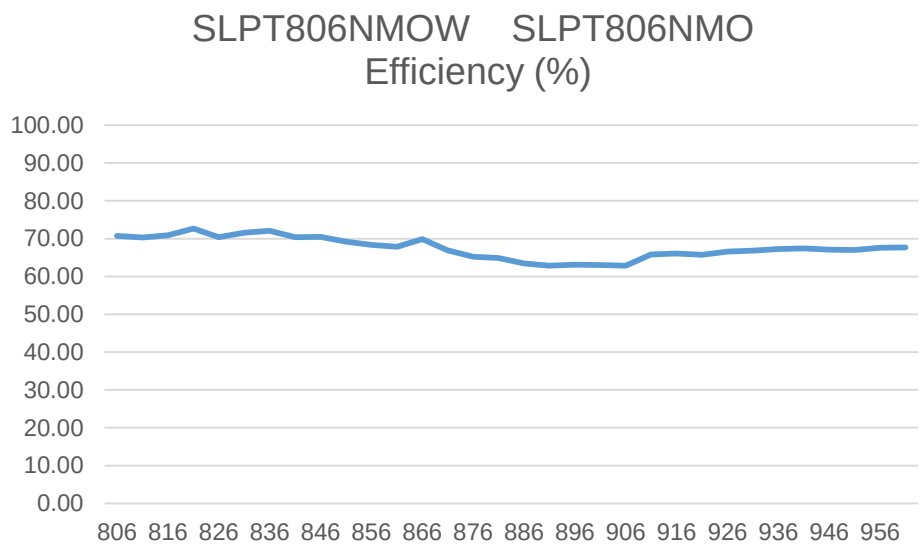
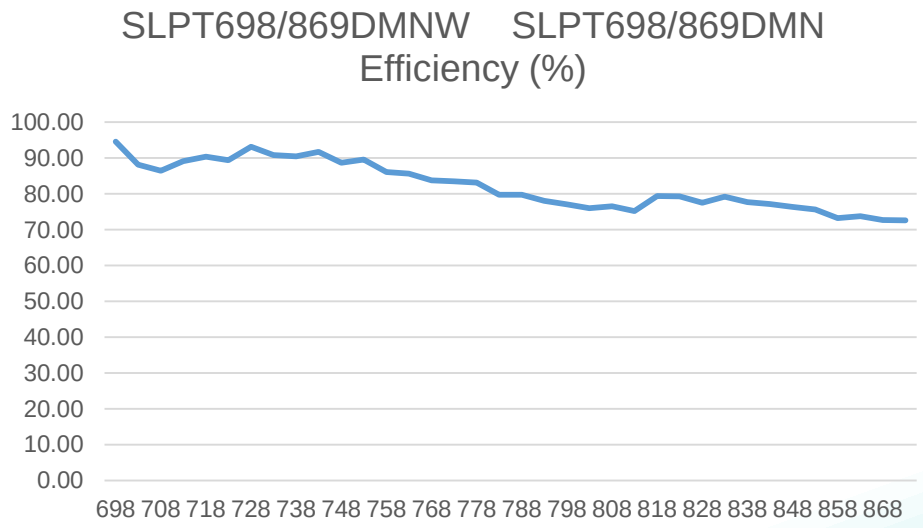
CHARTS

Efficiency(%)





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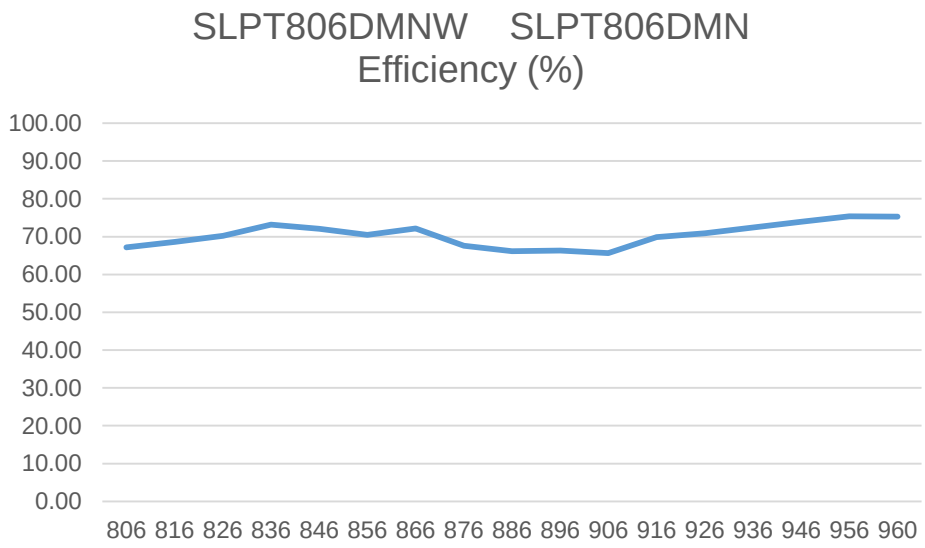
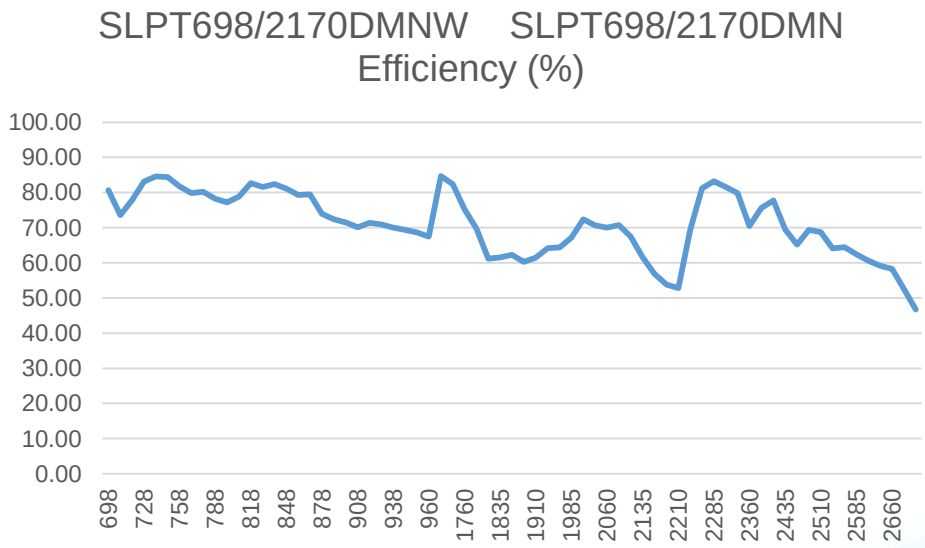
CHARTS

Efficiency(%)





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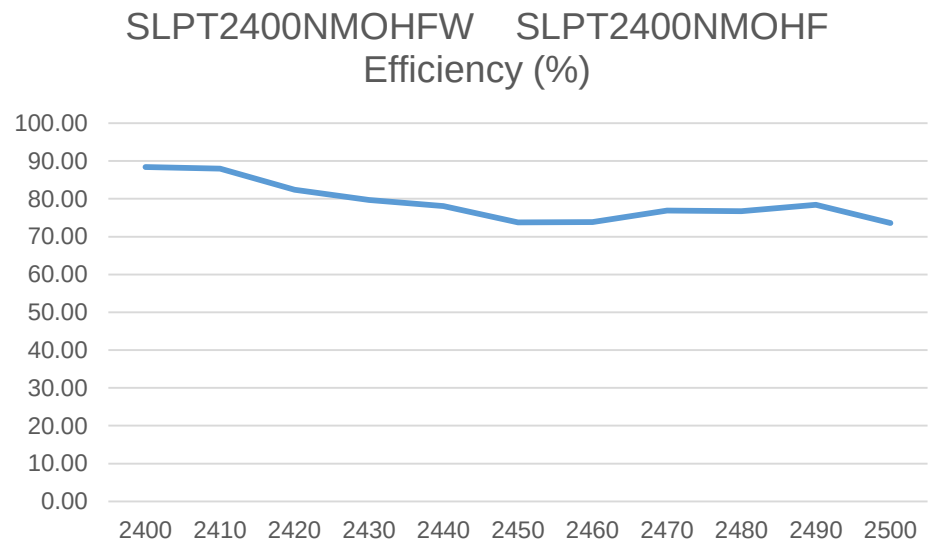
Description: ON-VEHICLE LOW PROFILE ANTENNA

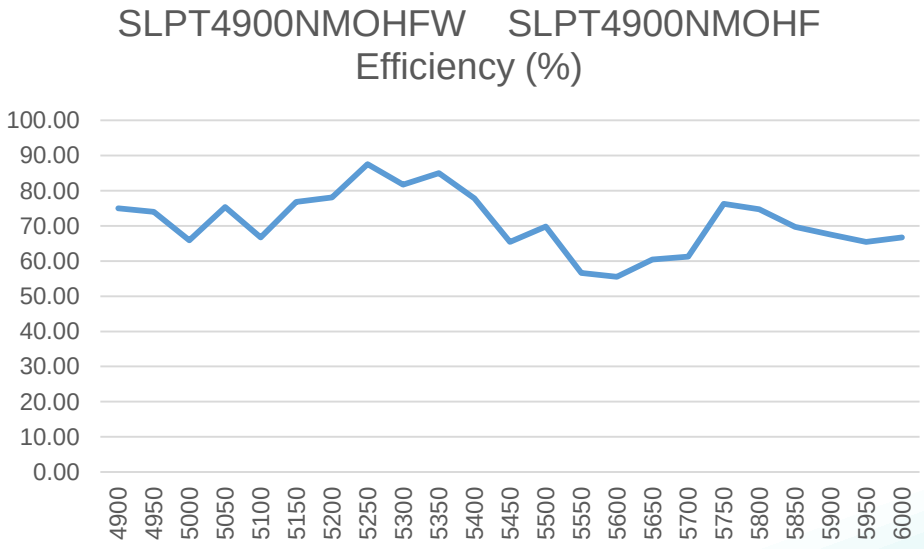
Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Efficiency(%)





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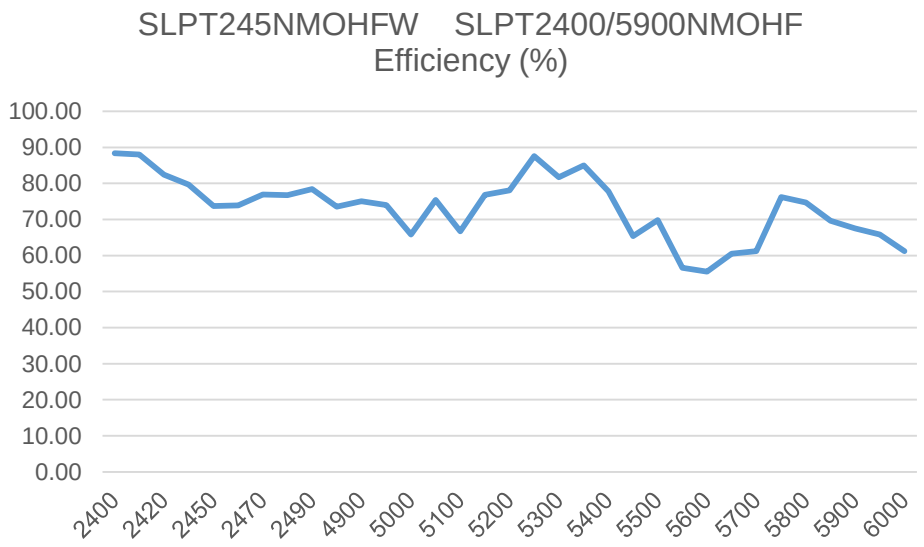
Description: ON-VEHICLE LOW PROFILE ANTENNA

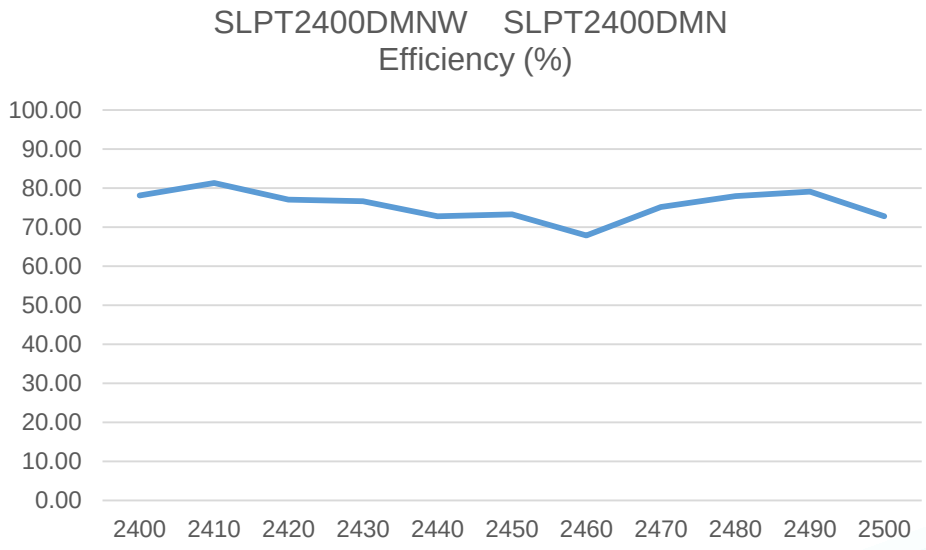
Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Efficiency(%)





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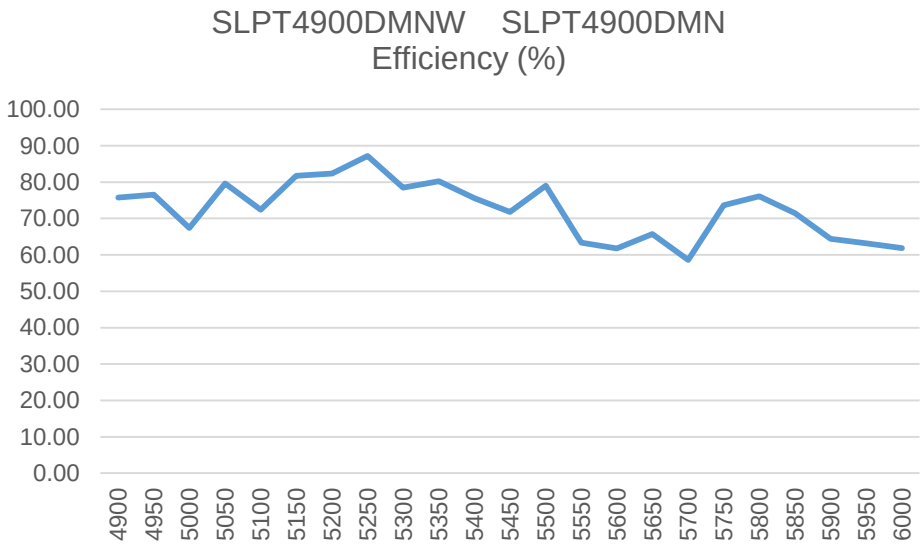
Description: ON-VEHICLE LOW PROFILE ANTENNA

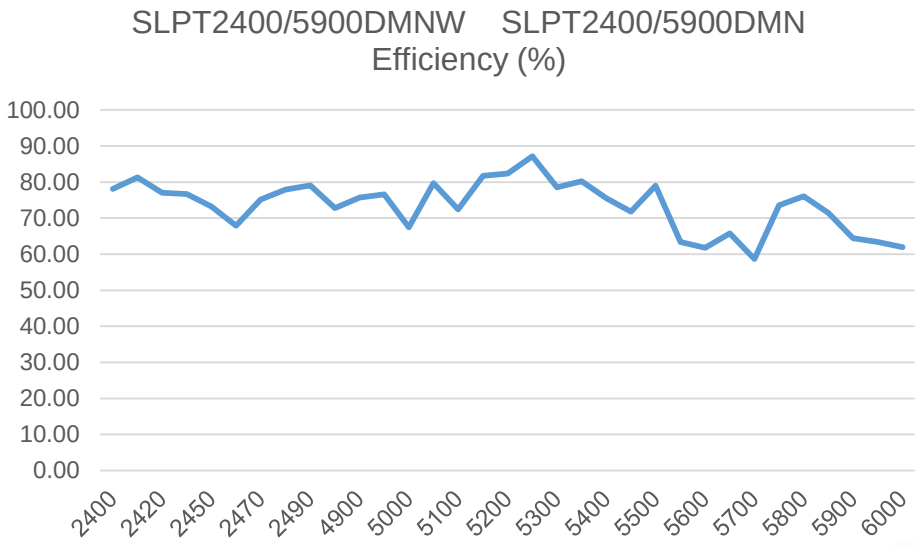
Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Efficiency(%)





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RoHS COMPLIANT

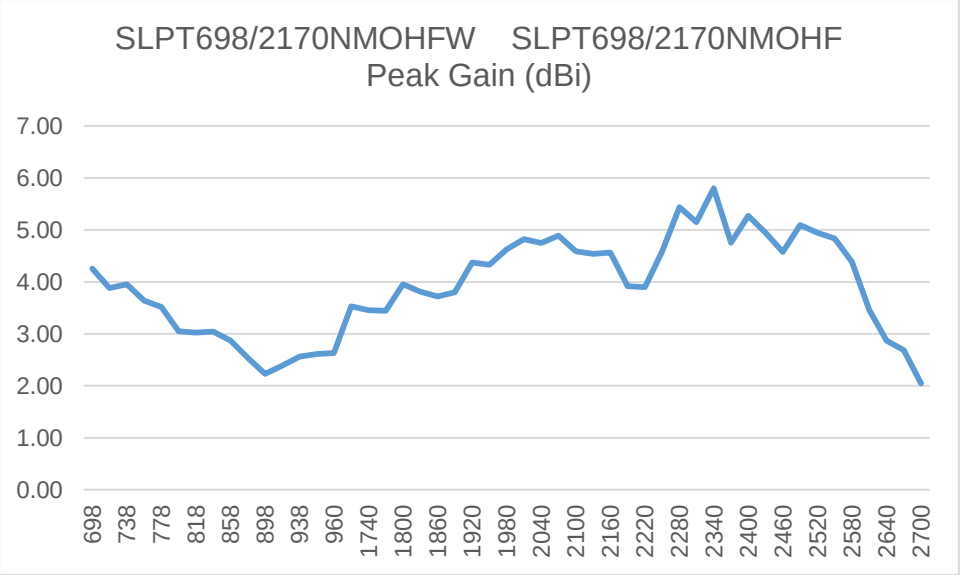
Description: ON-VEHICLE LOW PROFILE ANTENNA

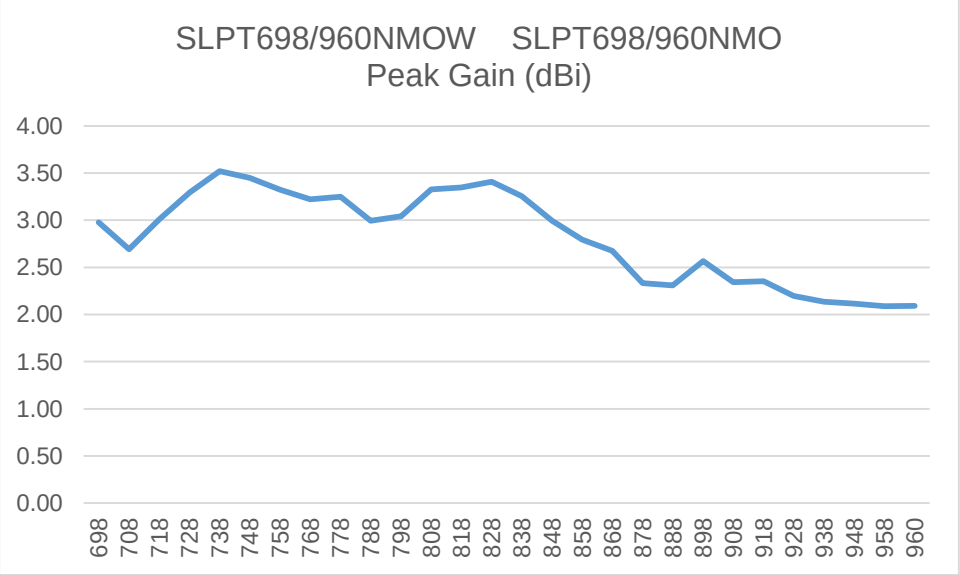
Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Peak Gain (dBi)





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RoHS COMPLIANT

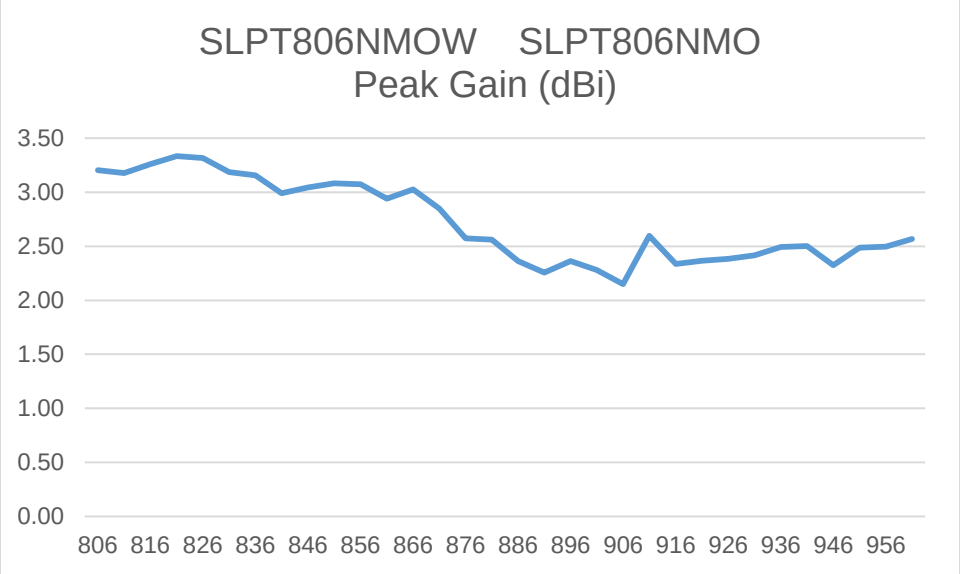
Description: ON-VEHICLE LOW PROFILE ANTENNA

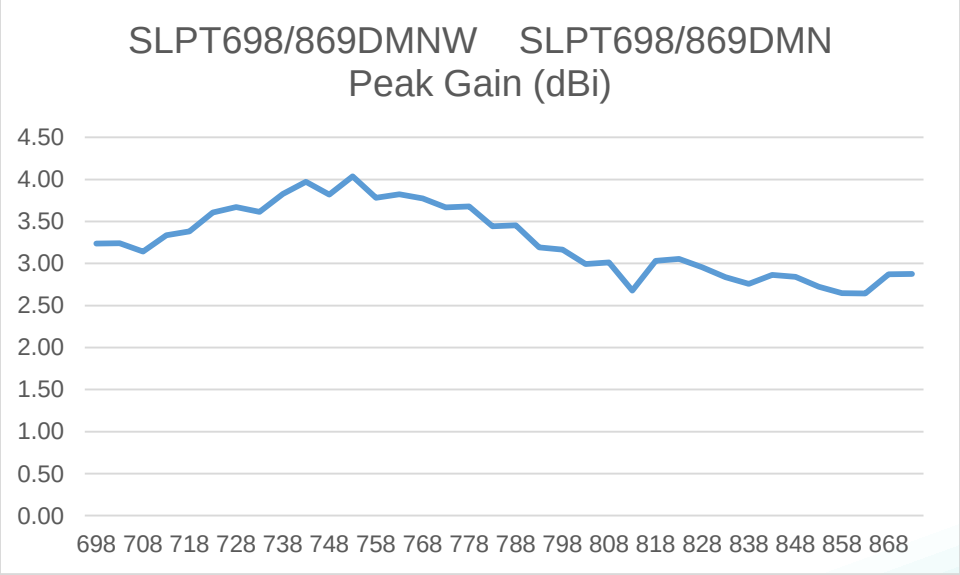
Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Peak Gain (dBi)





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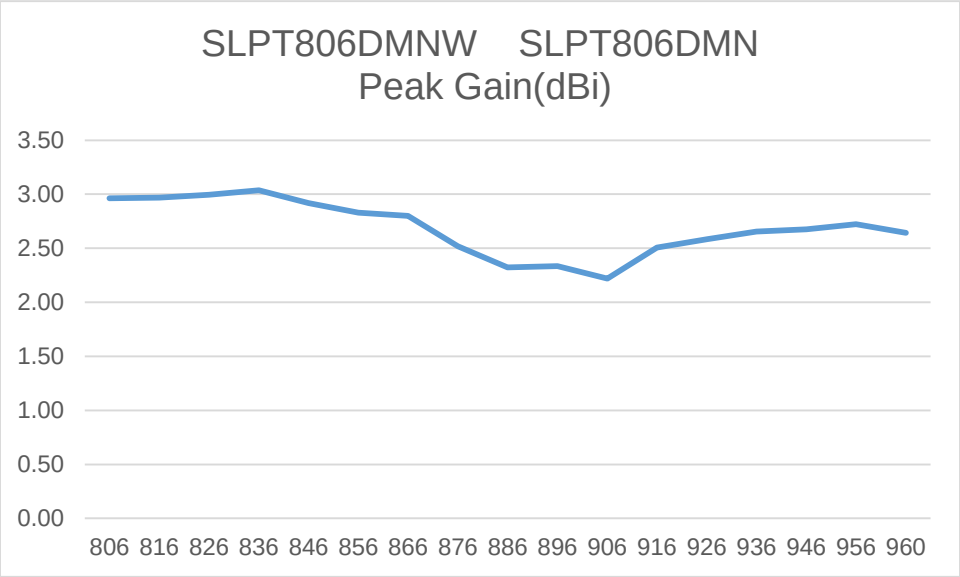
Description: ON-VEHICLE LOW PROFILE ANTENNA

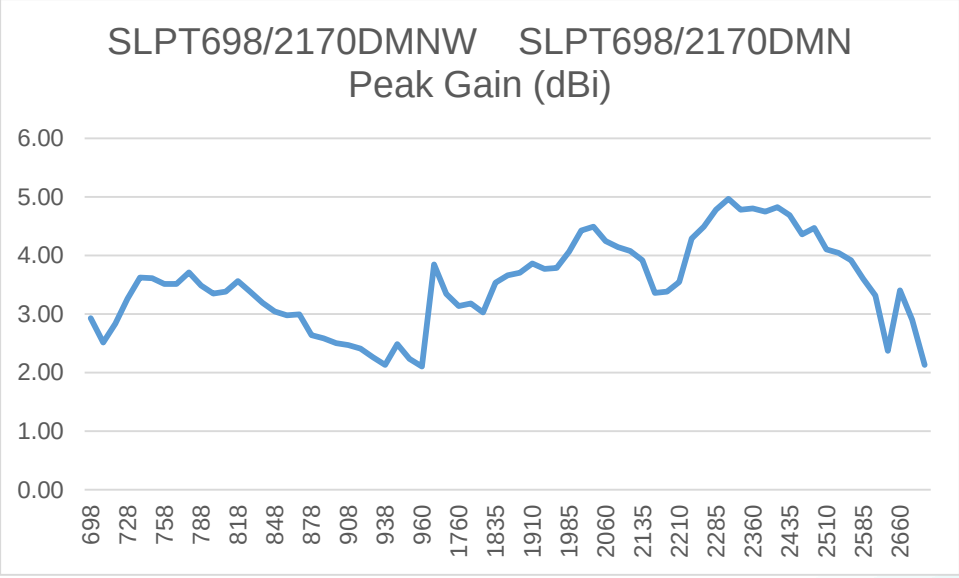
Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Peak Gain (dBi)





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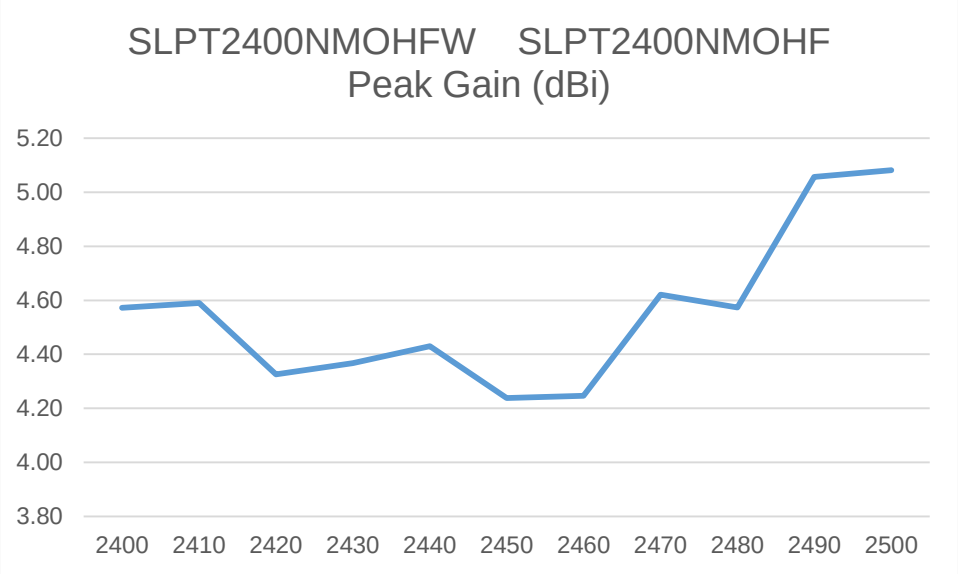
Description: ON-VEHICLE LOW PROFILE ANTENNA

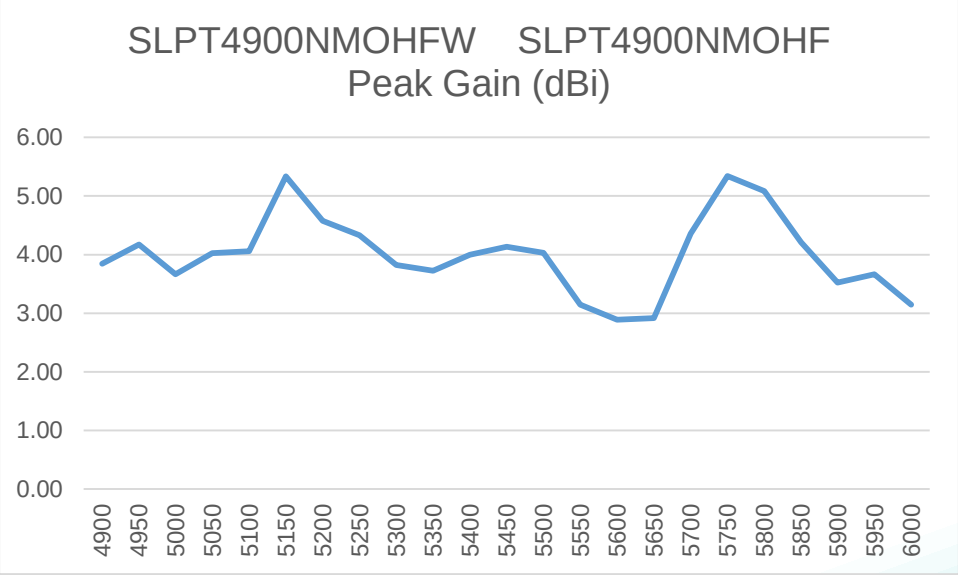
Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Peak Gain (dBi)





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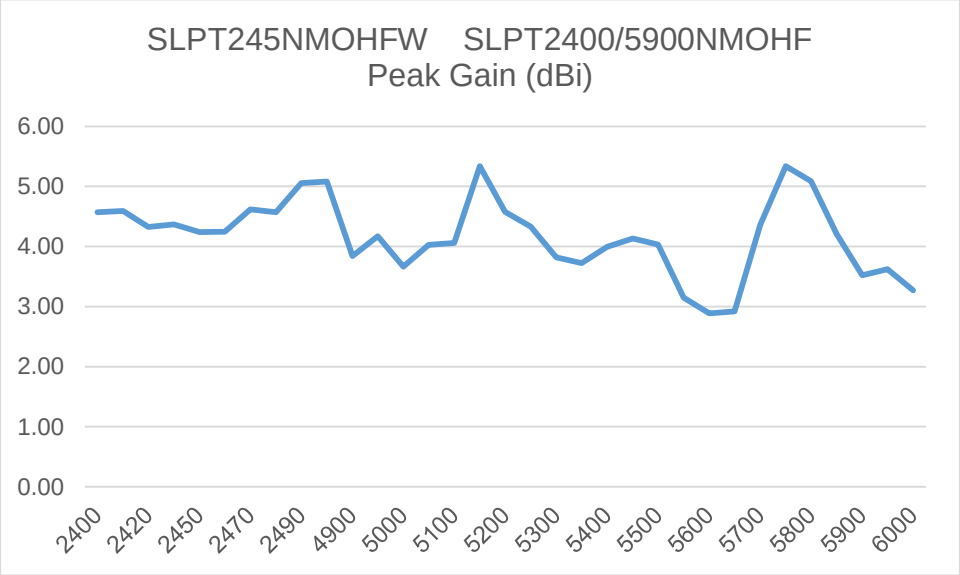
Description: ON-VEHICLE LOW PROFILE ANTENNA

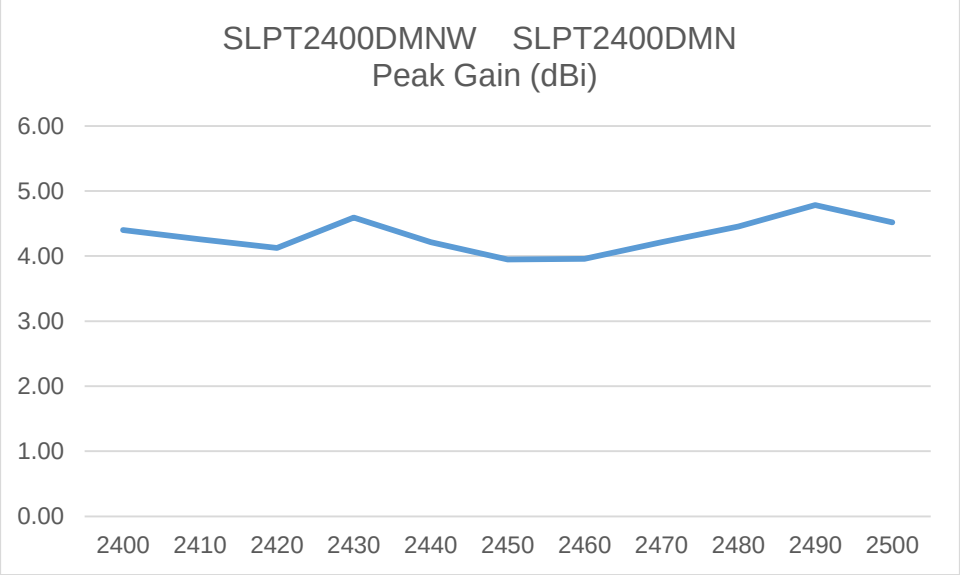
Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Peak Gain (dBi)





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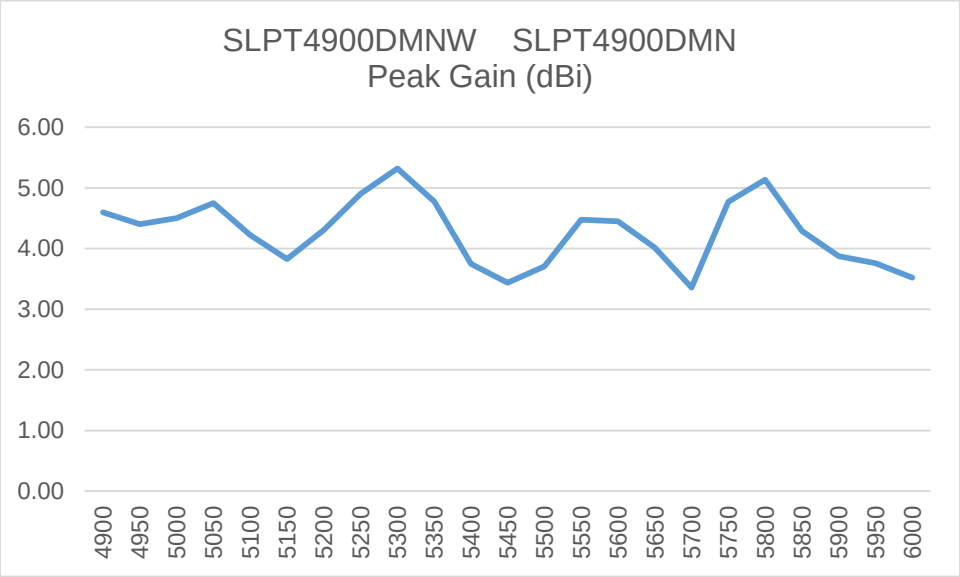
Description: ON-VEHICLE LOW PROFILE ANTENNA

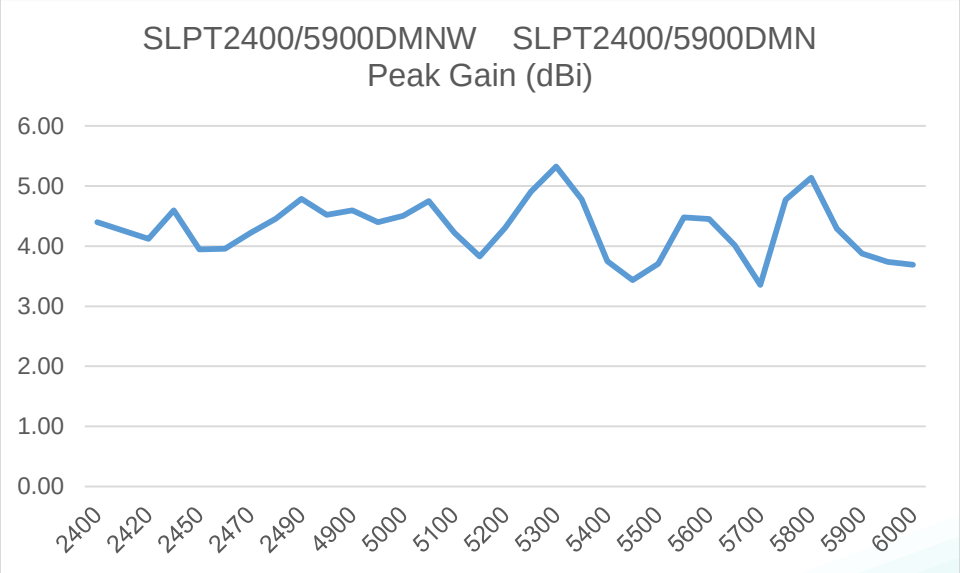
Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Peak Gain (dBi)





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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

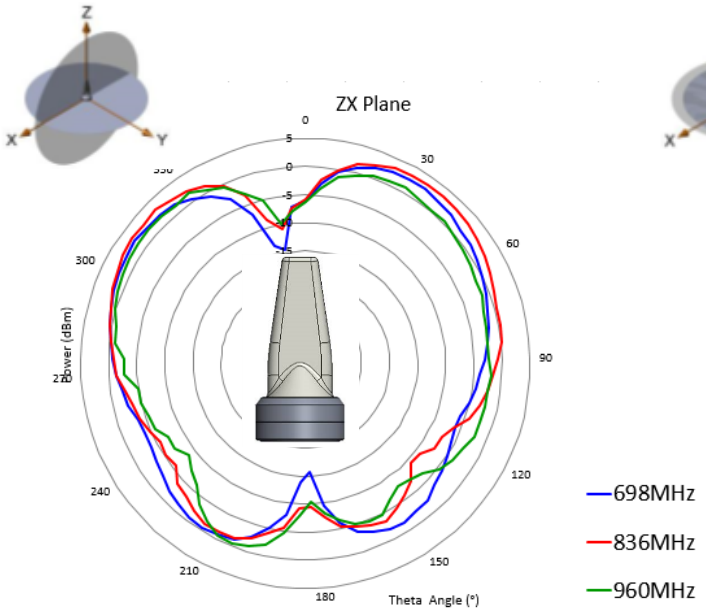
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

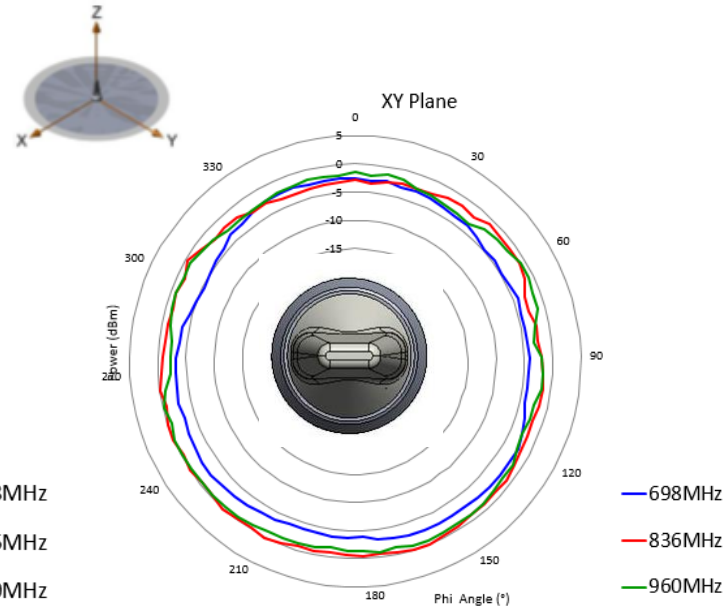
Free Space Radiation Pattern

SLPT698/2170NMOHFW SLPT698/2170NMOHF

Elevation Plane



Horizontal Plane



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RoHS COMPLIANT

Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

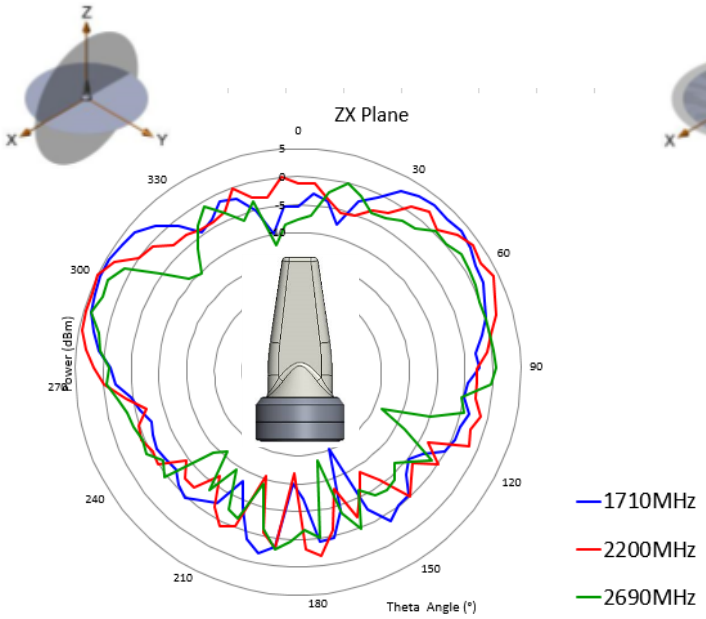
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

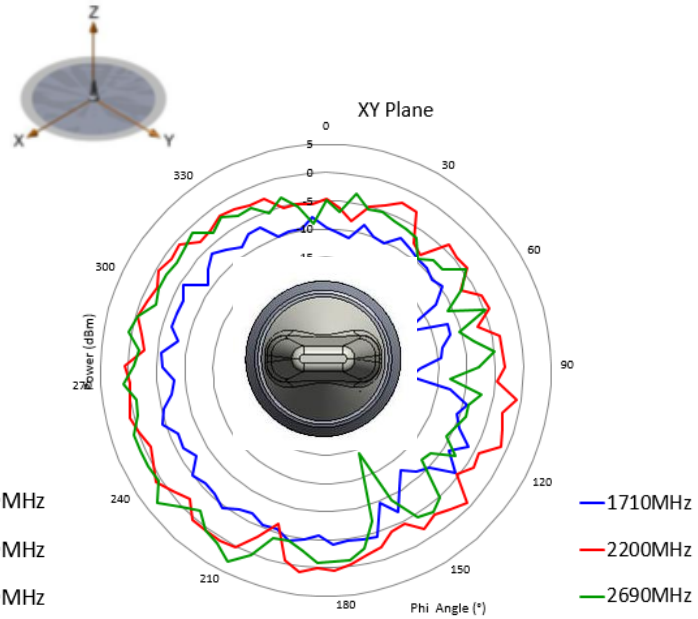
Free Space Radiation Pattern

SLPT698/2170NMOHFW SLPT698/2170NMOHF

Elevation Plane



Horizontal Plane



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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

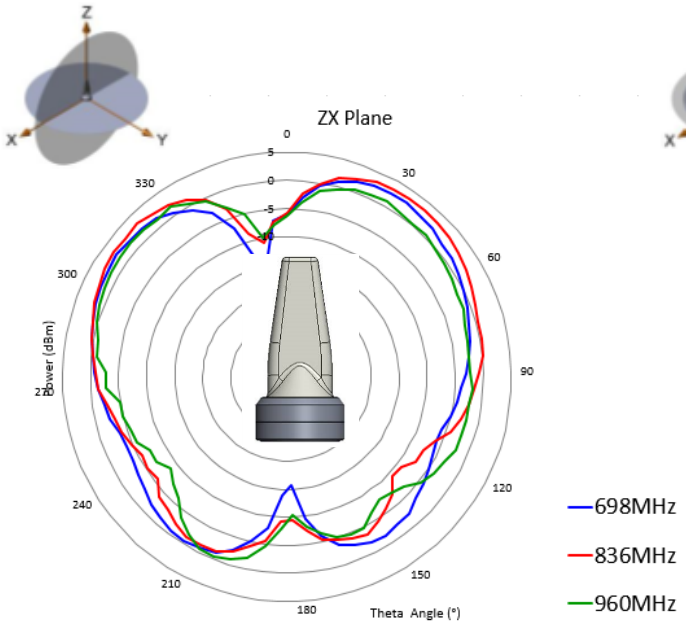
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

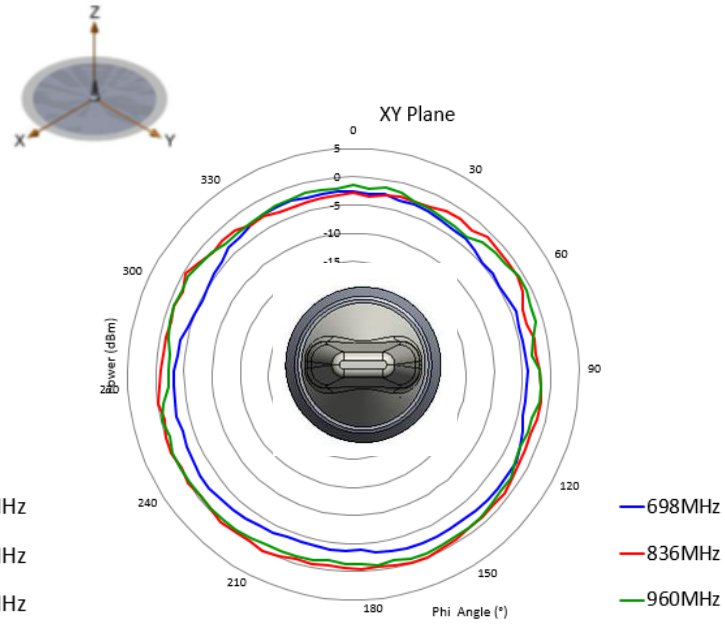
Free Space Radiation Pattern

SLPT698/960NMOW SLPT698/960NMO

Elevation Plane



Horizontal Plane



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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

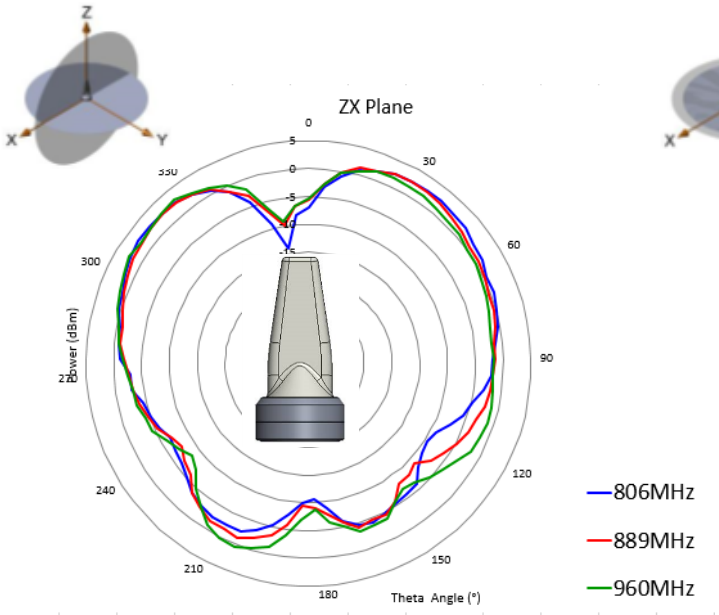
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

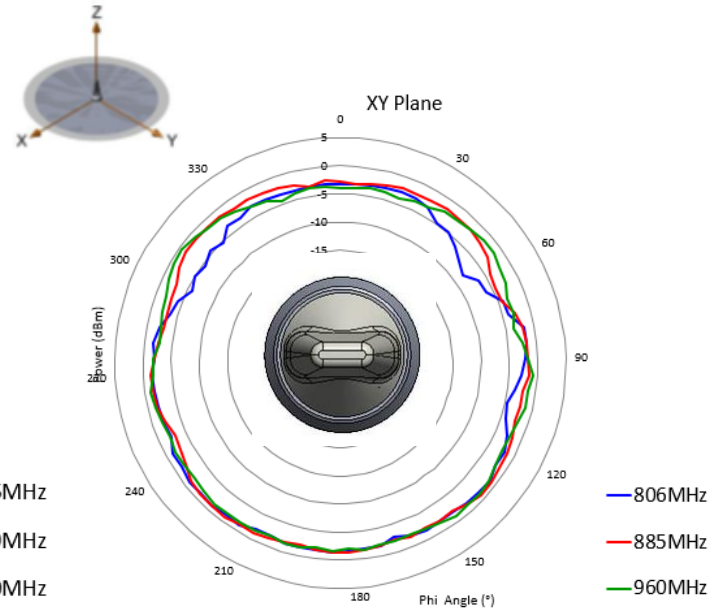
Free Space Radiation Pattern

SLPT806NMOW SLPT806NMO

Elevation Plane



Horizontal Plane



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RoHS COMPLIANT

Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

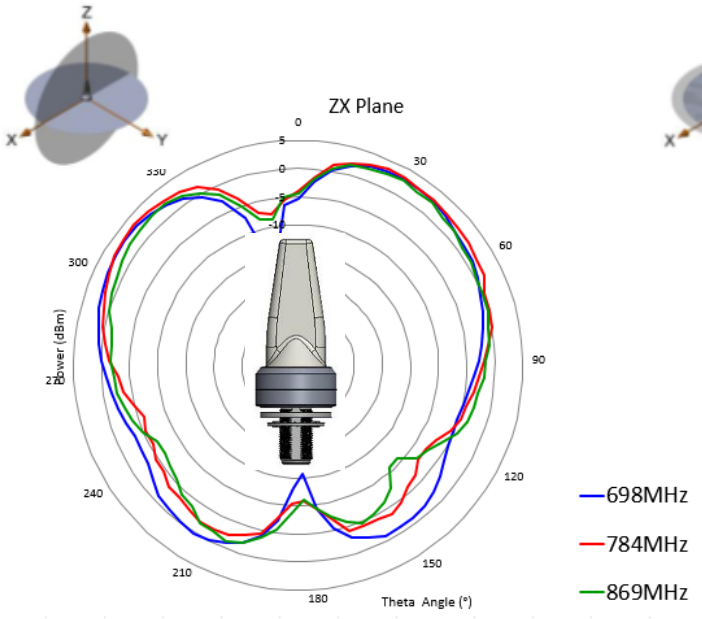
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

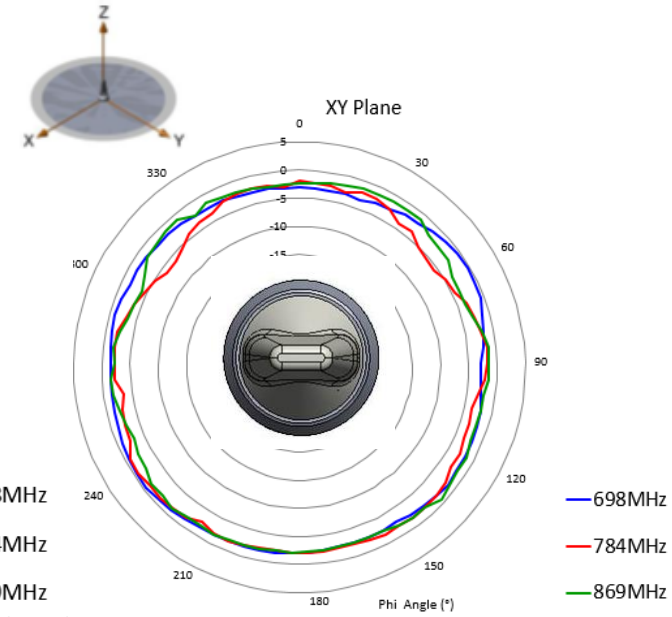
Free Space Radiation Pattern

SLPT698/869DMNW SLPT698/869DMN

Elevation Plane



Horizontal Plane



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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

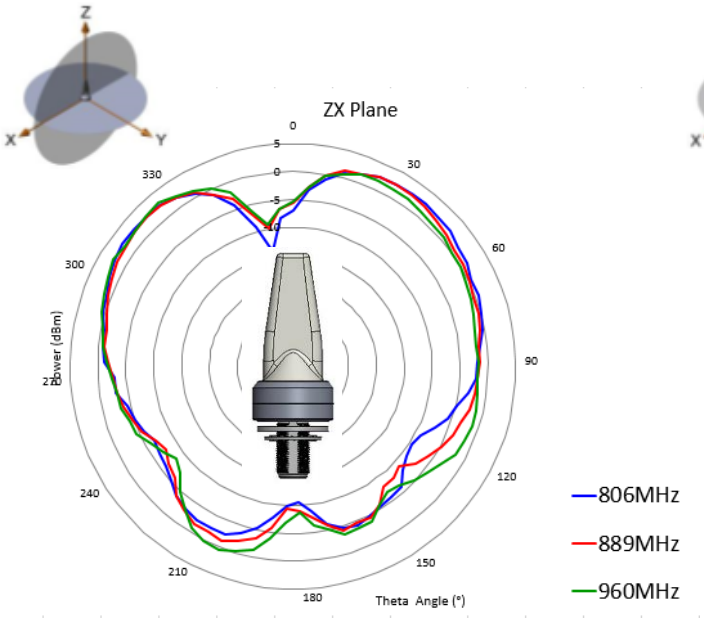
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

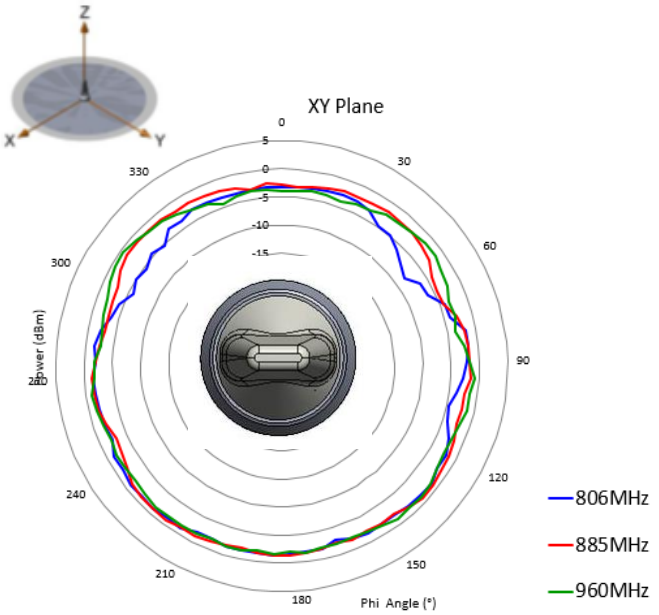
Free Space Radiation Pattern

SLPT806DMNW SLPT806DMN

Elevation Plane



Horizontal Plane



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RoHS COMPLIANT

Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

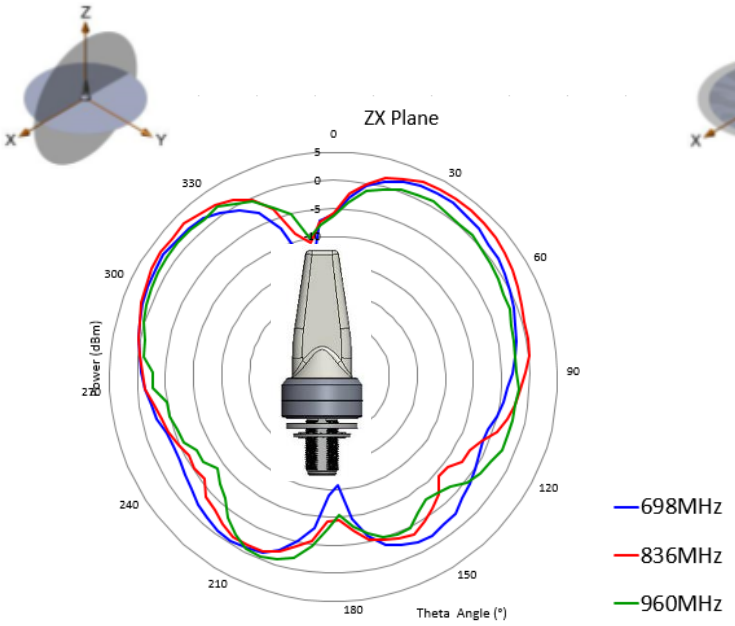
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

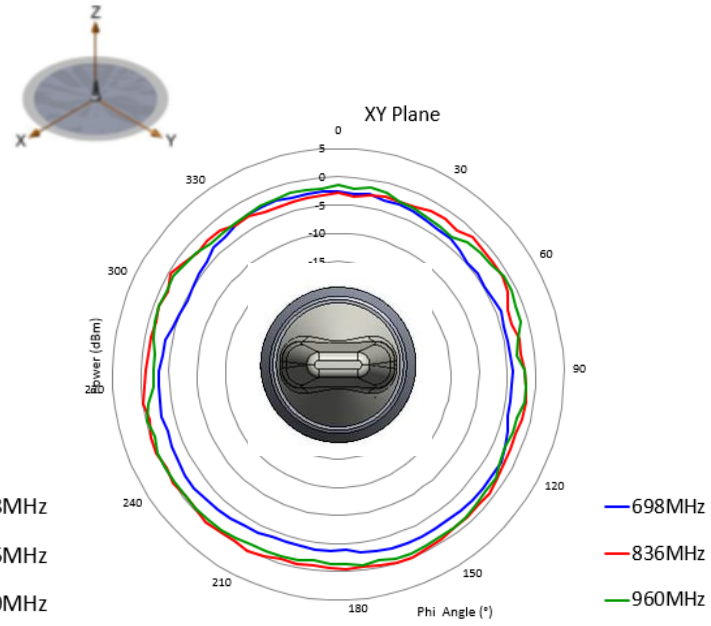
Free Space Radiation Pattern

SLPT698/2170DMNW SLPT698/2170DMN

Elevation Plane



Horizontal Plane



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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

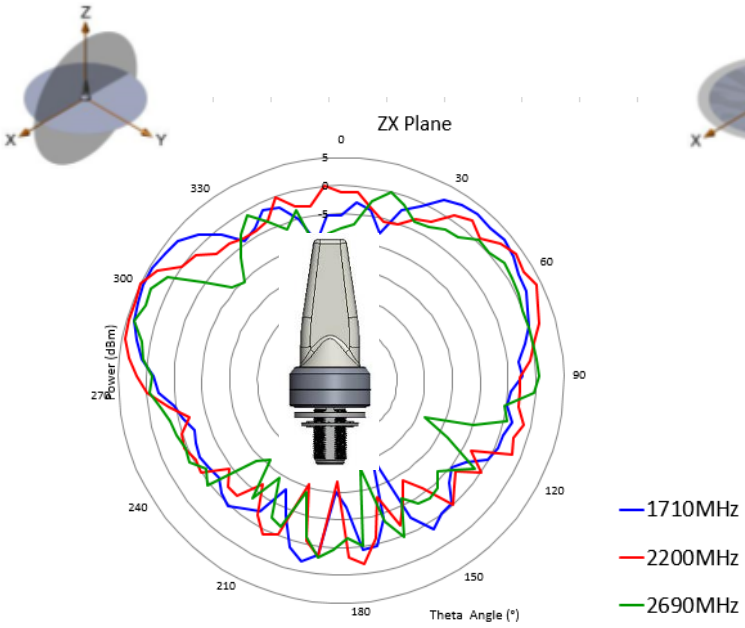
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

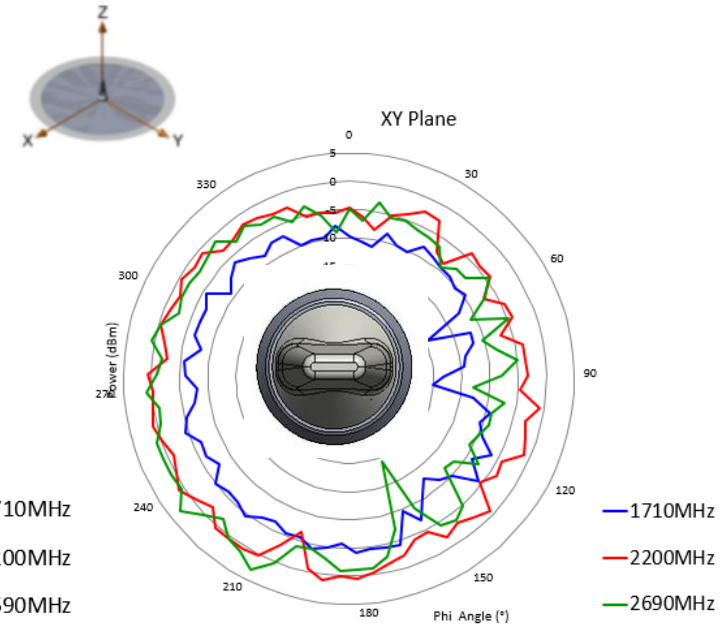
Free Space Radiation Pattern

SLPT698/2170DMNW SLPT698/2170DMN

Elevation Plane



Horizontal Plane



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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

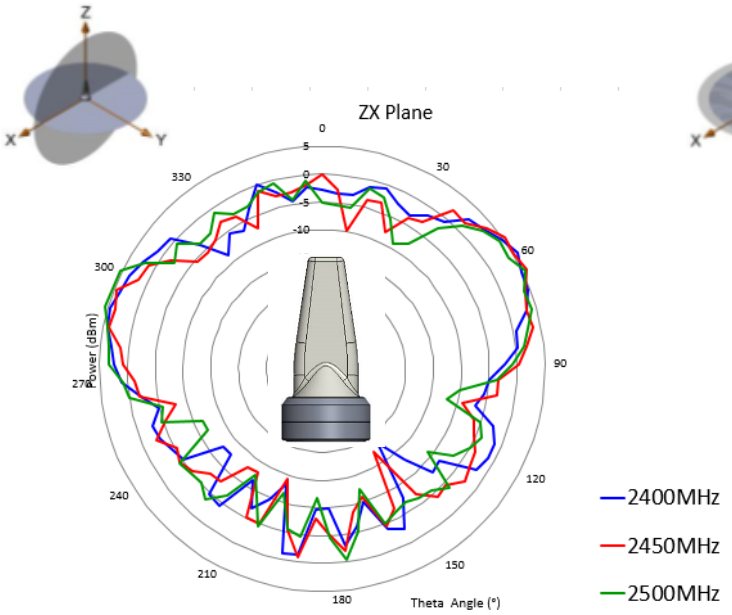
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

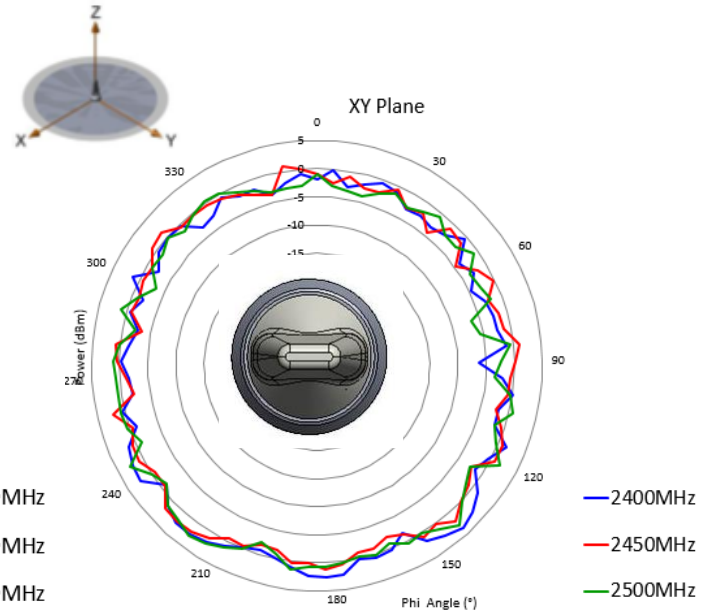
Free Space Radiation Pattern

SLPT2400NMOHFW SLPT2400NMOHF

Elevation Plane



Horizontal Plane



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RoHS COMPLIANT

Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

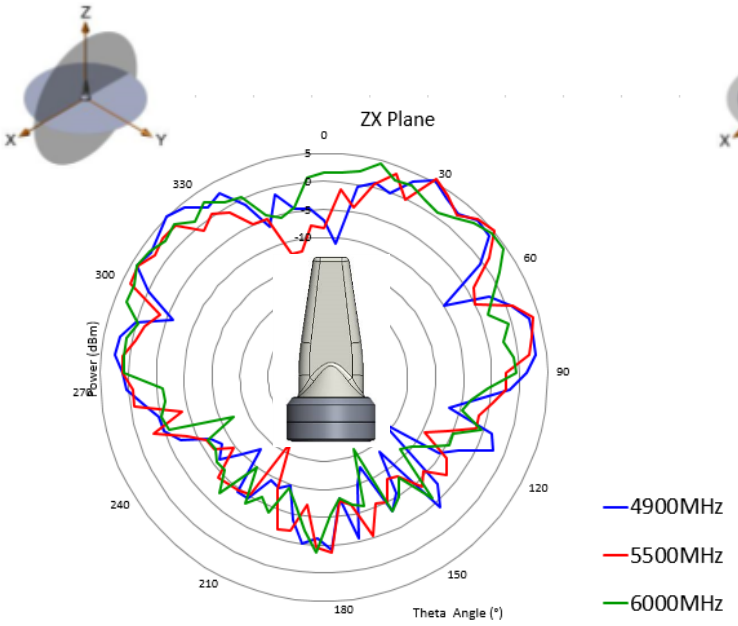
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

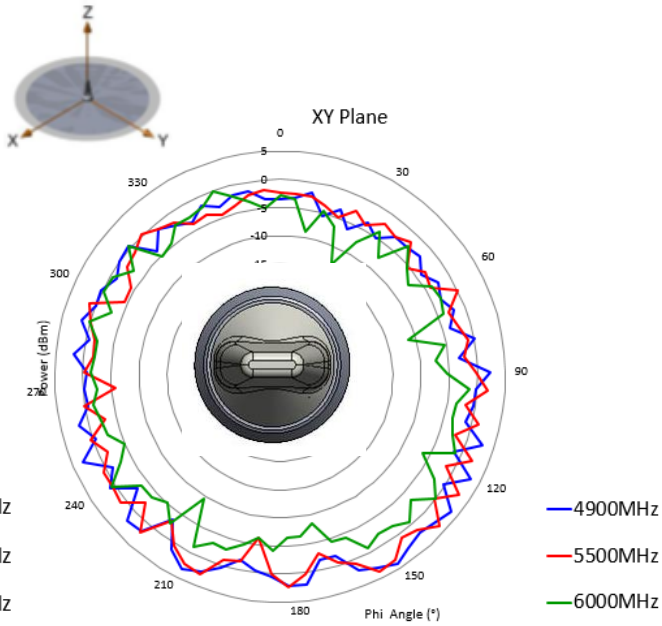
Free Space Radiation Pattern

SLPT4900NMOHFW SLPT4900NMOHF

Elevation Plane



Horizontal Plane



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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

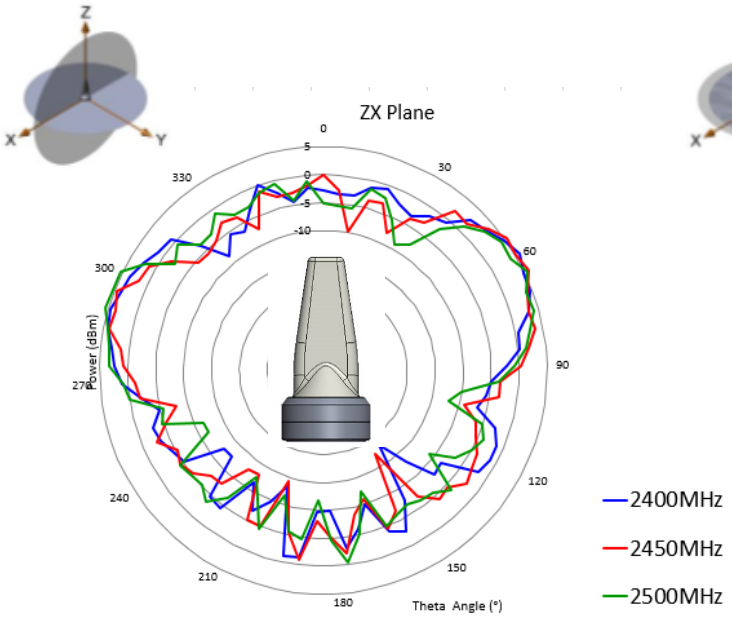
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

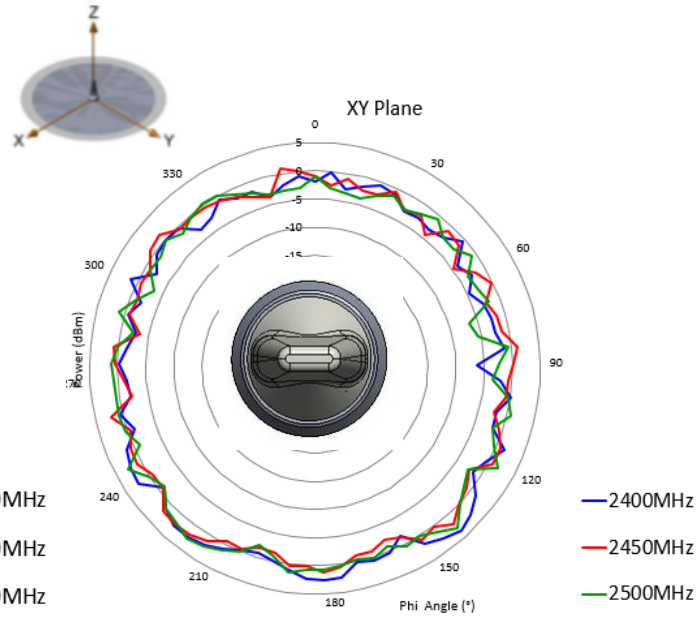
Free Space Radiation Pattern

SLPT245NMOHFW SLPT2400/5900NMOHF

Elevation Plane



Horizontal Plane



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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

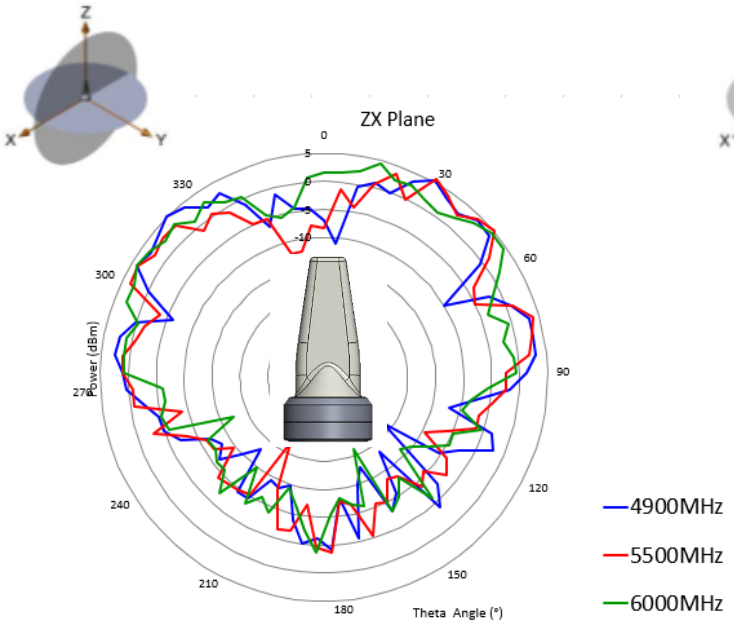
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

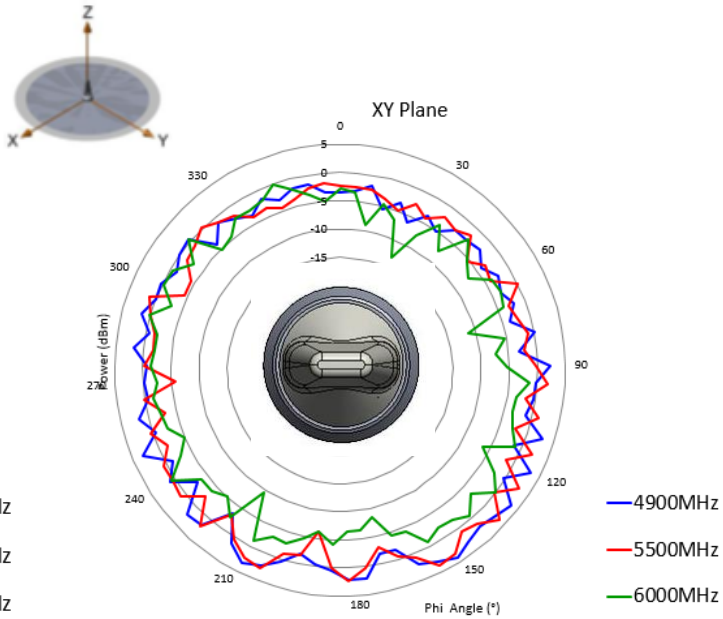
Free Space Radiation Pattern

SLPT245NMOHFW SLPT2400/5900NMOHF

Elevation Plane



Horizontal Plane



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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

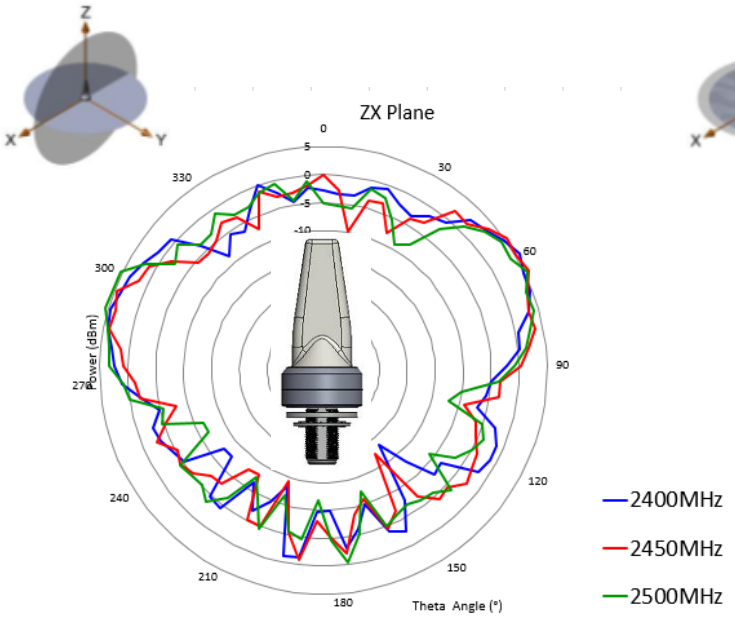
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

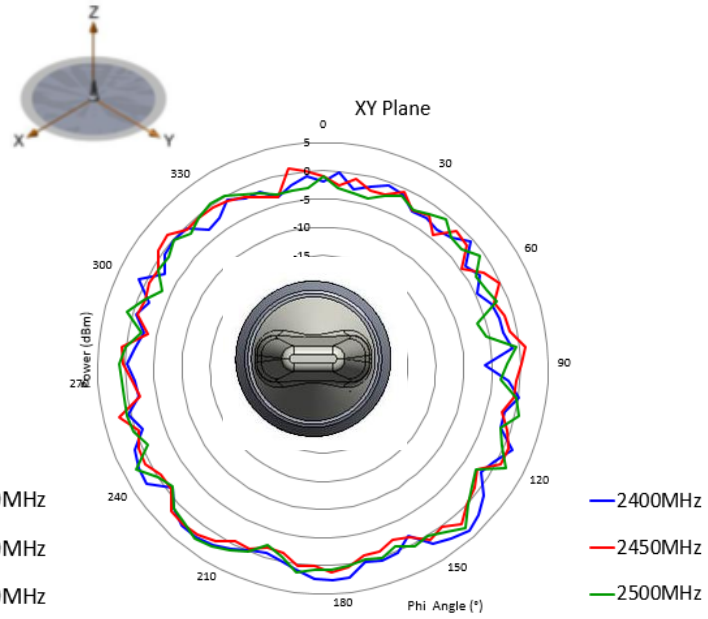
Free Space Radiation Pattern

SLPT2400DMNW SLPT2400DMN

Elevation Plane



Horizontal Plane



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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

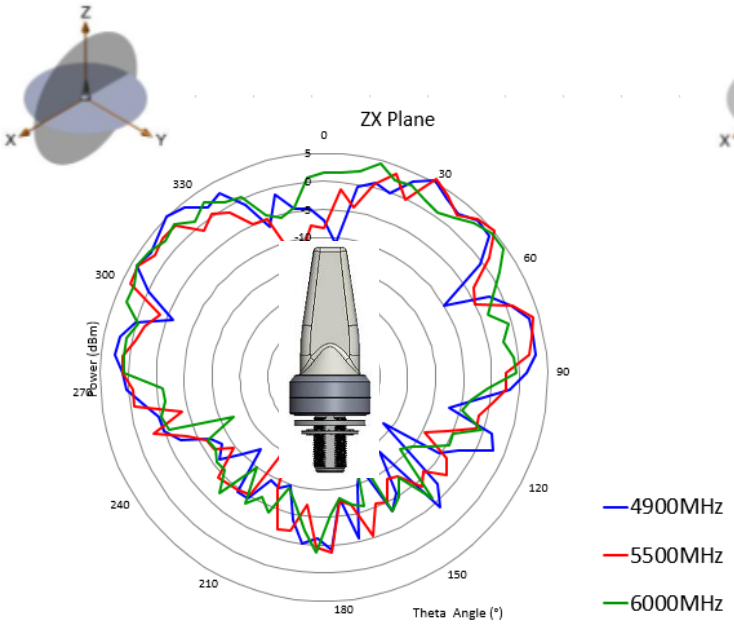
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

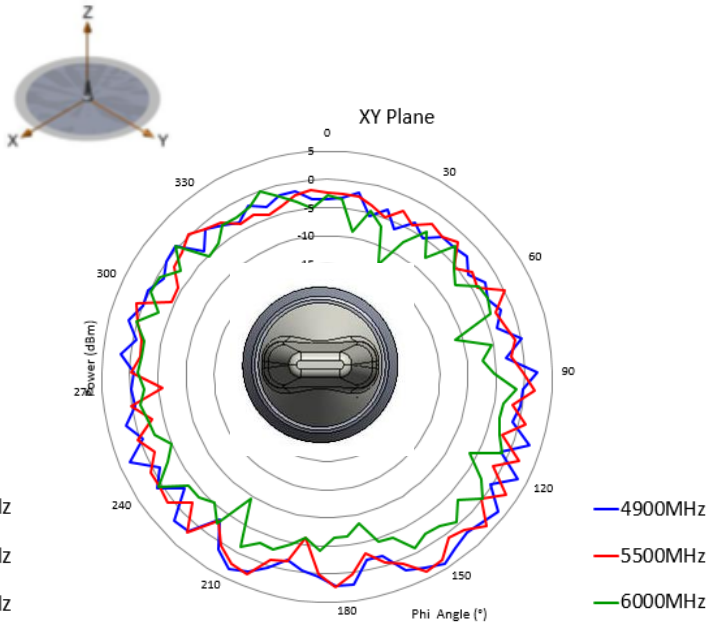
Free Space Radiation Pattern

SLPT4900DMNW SLPT4900DMN

Elevation Plane



Horizontal Plane



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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

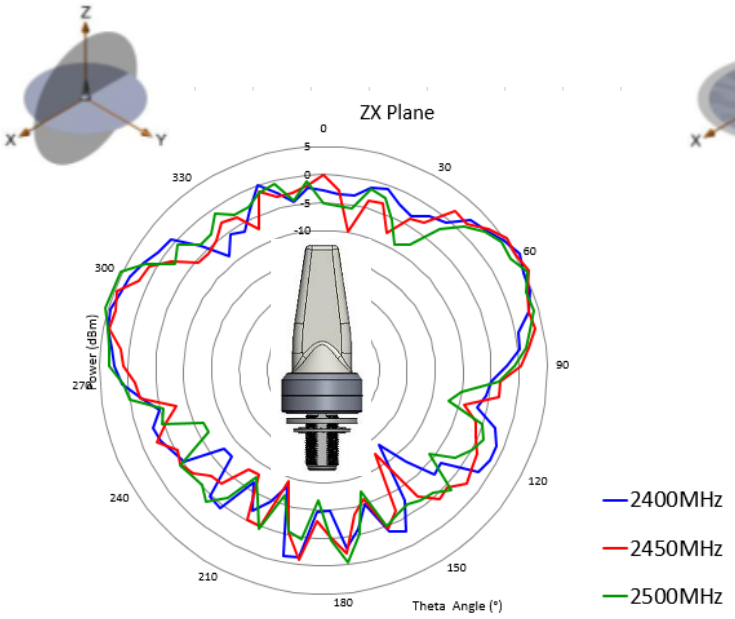
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

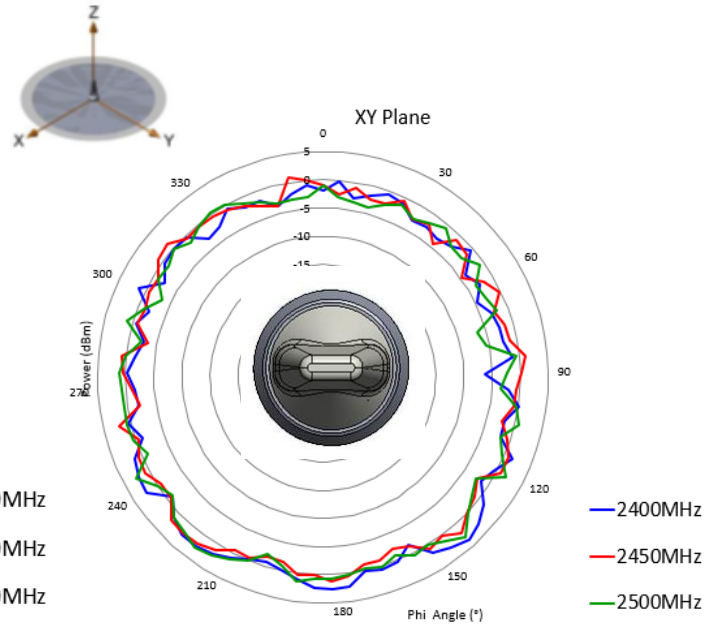
Free Space Radiation Pattern

SLPT2400/5900DMNW SLPT2400/5900DMN

Elevation Plane



Horizontal Plane



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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

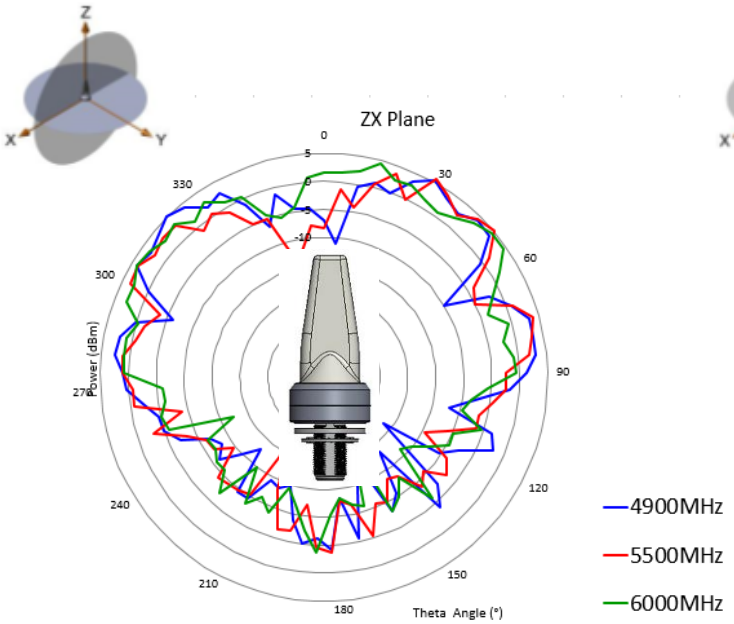
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

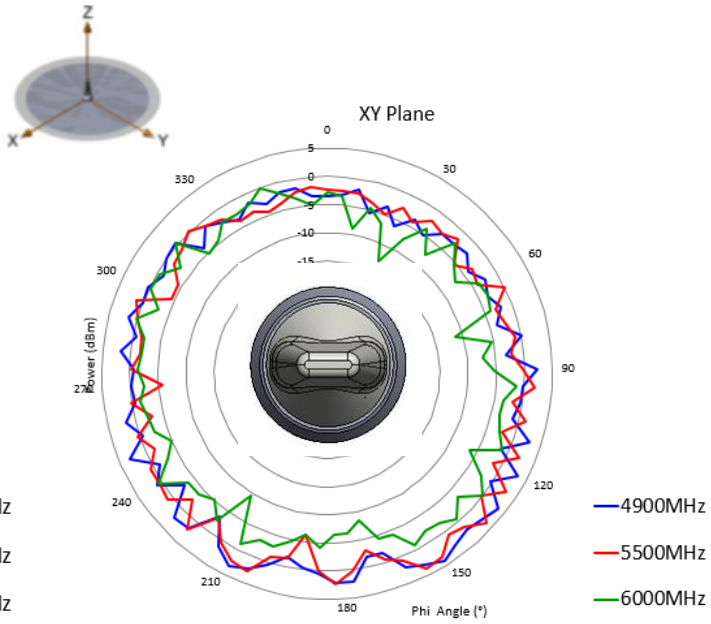
Free Space Radiation Pattern

SLPT2400/5900DMNW SLPT2400/5900DMN

Elevation Plane



Horizontal Plane



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- *Регистрацию проекта у производителя компонентов.*
- *Техническую поддержку проекта.*
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