

## Description: ON-VEHICLE LOW PROFILE ANTENNA

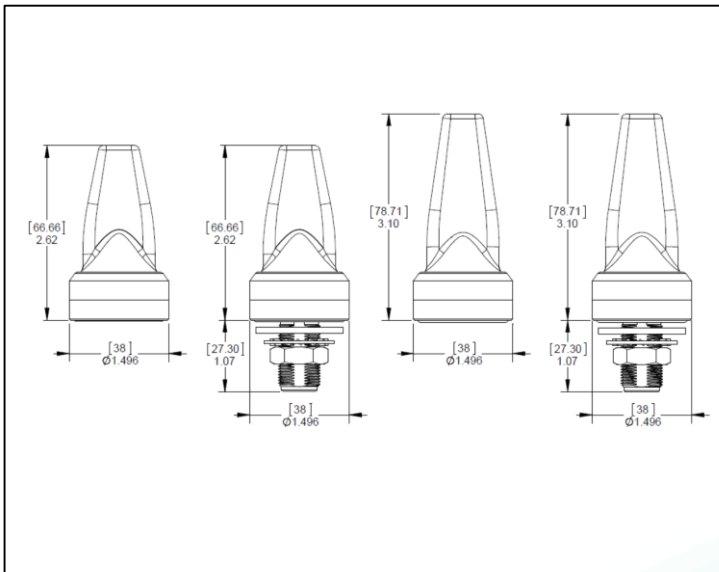
Series: Shadow

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: 1640

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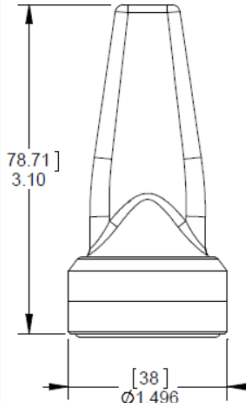
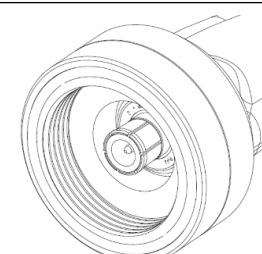
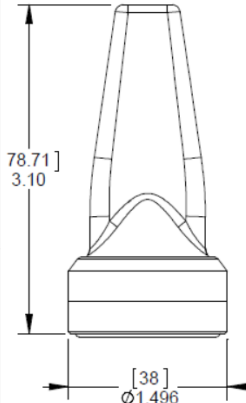
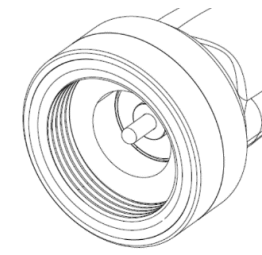
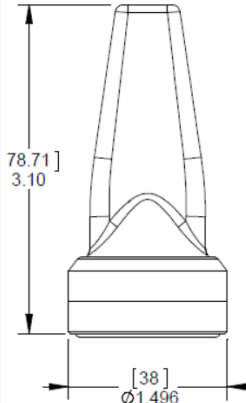
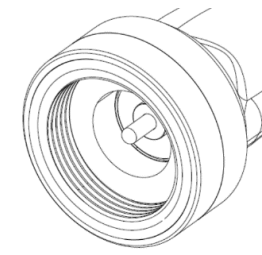
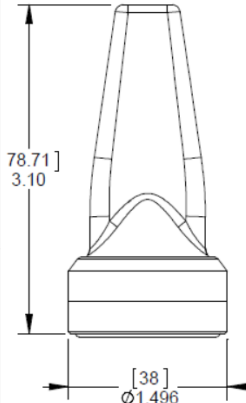
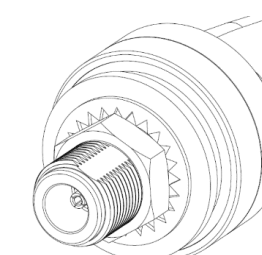
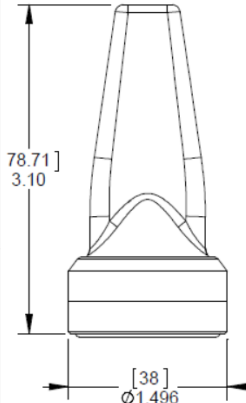
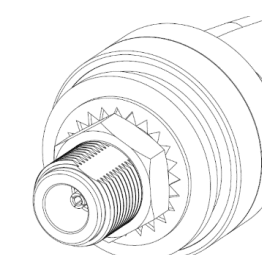
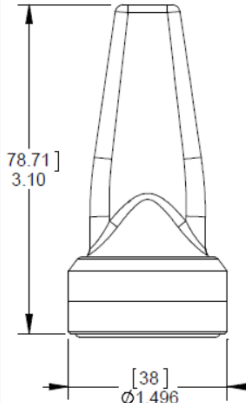
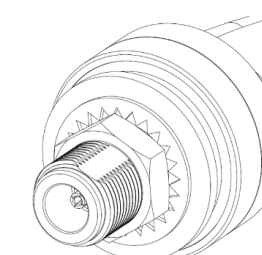


# Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

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

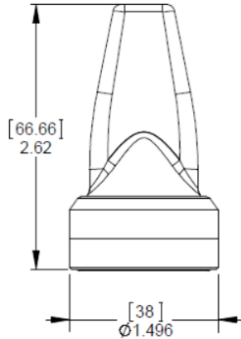
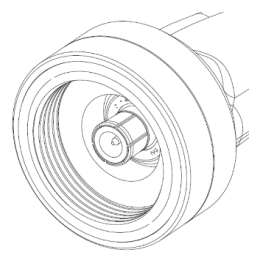
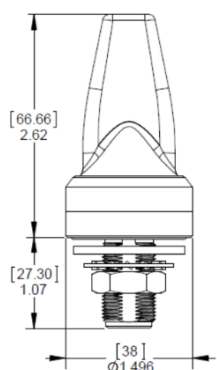
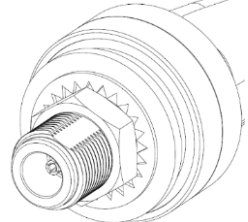
Project	Color	Frequency	Size	Fixing System Connector
SLPT698/2170NMOHFW	White	698-960MHz 1710-2700MHz		 NMOHF NMO + HF Connector
SLPT698/2170NMOHF	Black			
SLPT698/960NMOW	White	698-960MHz		 NMO + Pogo Pin Connector
SLPT698/960NMO	Black			
SLPT806NMOW	White	806-960MHz		 NMO + Pogo Pin Connector
SLPT806NMO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

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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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### ELECTRICAL SPECIFICATIONS

Project	Frequency	VSWR	Peak Gain	Efficiency
SLPT698/2170NMOHFW	698-960MHz 1710-2700MHz	3:1(0.698-0.716GHz) 2.5:1(0.716-0.772GHz) 2:1(0.772-0.9GHz) 2.5:1(0.9-0.934GHz) 3:1(0.934-0.96GHz) 1.7:1(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%
SLPT698/2170NMOHF				
SLPT698/960NMOW	698-960MHz	2:1	3.29dBi	68%
SLPT698/960NMO				
SLPT806NMOW	806-960MHz	2:1	3.18dBi	67%
SLPT806NMO				
SLPT698/869DMNW	698-869MHz	2:1	3.26dBi	72%
SLPT698/869DMN				
SLPT806DMNW	806-960MHz	1.5:1	3.05dBi	70%
SLPT806DMN				
SLPT698/2170DMNW	698-960MHz 1710-2700MHz	3:1(0.698-0.732GHz) 2.5:1(0.732-0.774GHz) 2:1(0.774-0.852GHz) 2.5:1(0.852-0.903GHz) 3:1(0.903-0.96GHz) 1.7:1(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%
SLPT698/2170DMN				

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### ELECTRICAL SPECIFICATIONS

Project	Frequency	VSWR	Peak Gain	Efficiency
SLPT2400NMOHFW	2400-2500MHz	1.5:1	5.06dBi	79%
SLPT2400NMOHF				
SLPT4900NMOHFW	4900-6000MHz	2:1	5.09dBi	71%
SLPT4900NMOHF				
SLPT245NMOHFW	2400-2500MHz 4900-6000MHz	1.5:1(2.4-2.5GHz) 2:1(4.9-6GHz)	5.06dBi 5.09dBi	79% 71%
SLPT2400/5900NMOHF				
SLPT2400DMNW	2400-2500MHz	1.5:1	4.78dBi	75%
SLPT2400DMN				
SLPT4900DMNW	4900-6000MHz	2:1	5.14dBi	73%
SLPT4900DMN				
SLPT2400/5900DMNW	2400-2500MHz 4900-6000MHz	1.5:1(2.4-2.5GHz) 2:1(4.9-6GHz)	4.78dBi 5.14dBi	79% 73%
SLPT2400/5900DMN				

Nominal Impedance

50Ω

Radiation Pattern

omni

Polarization:

Vertical

Power with standing

10W

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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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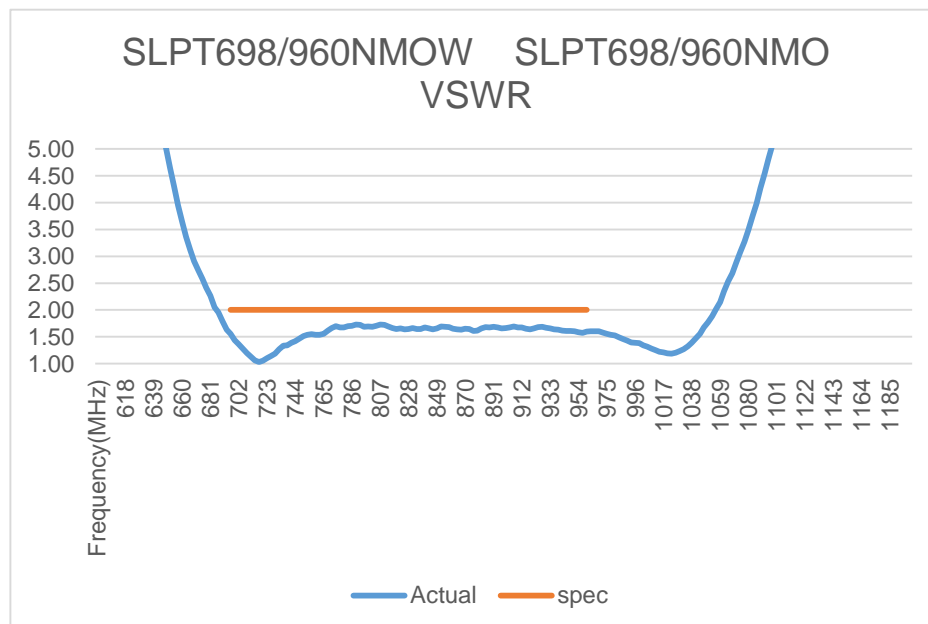
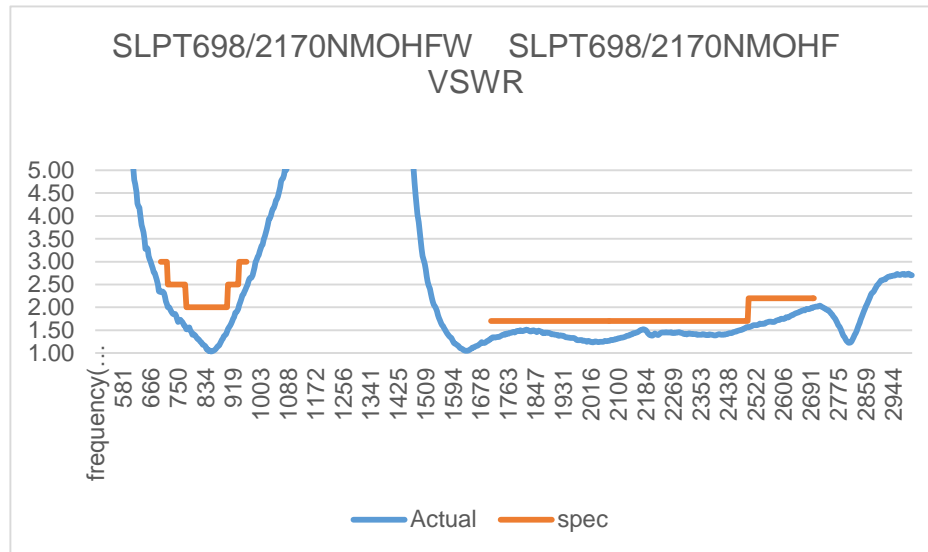
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### CHARTS

#### VSWR



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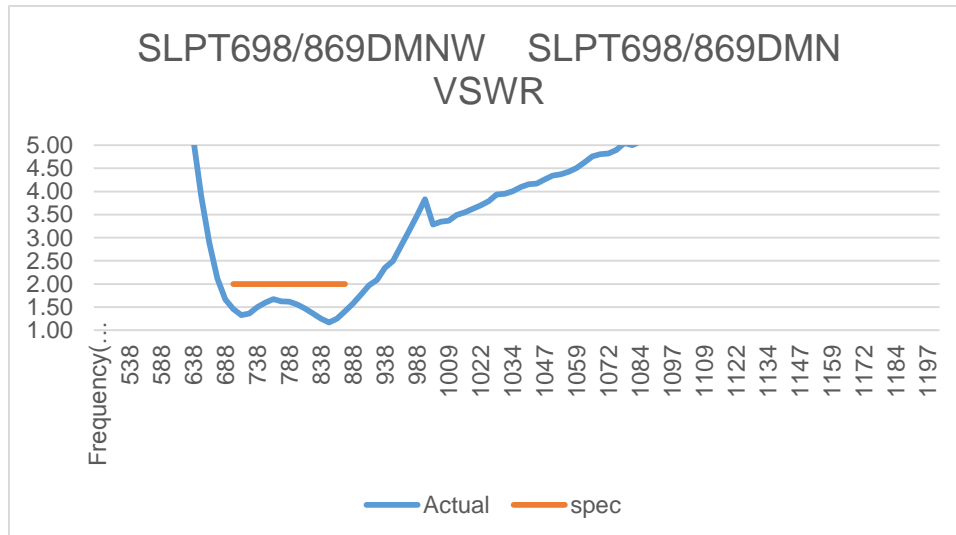
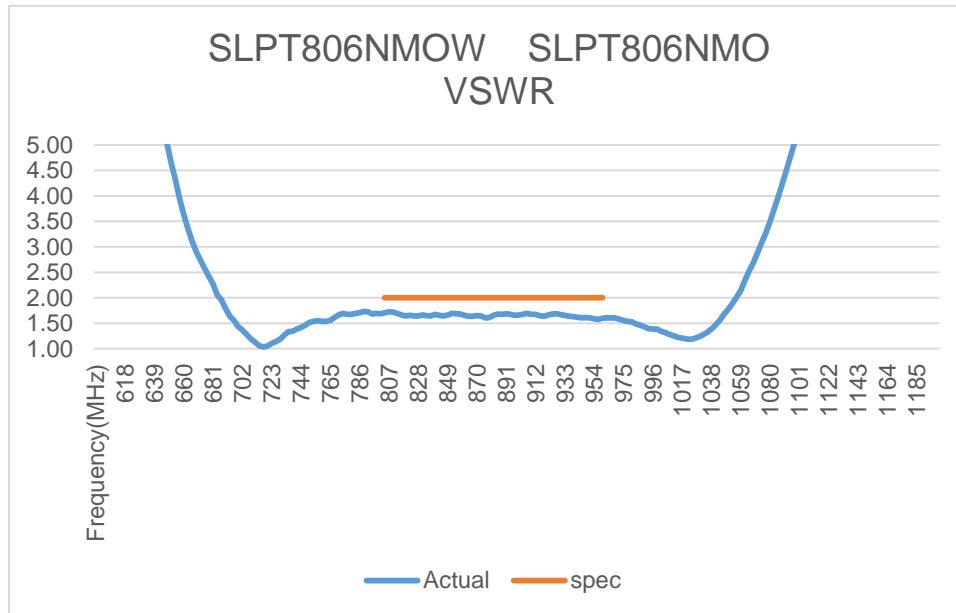
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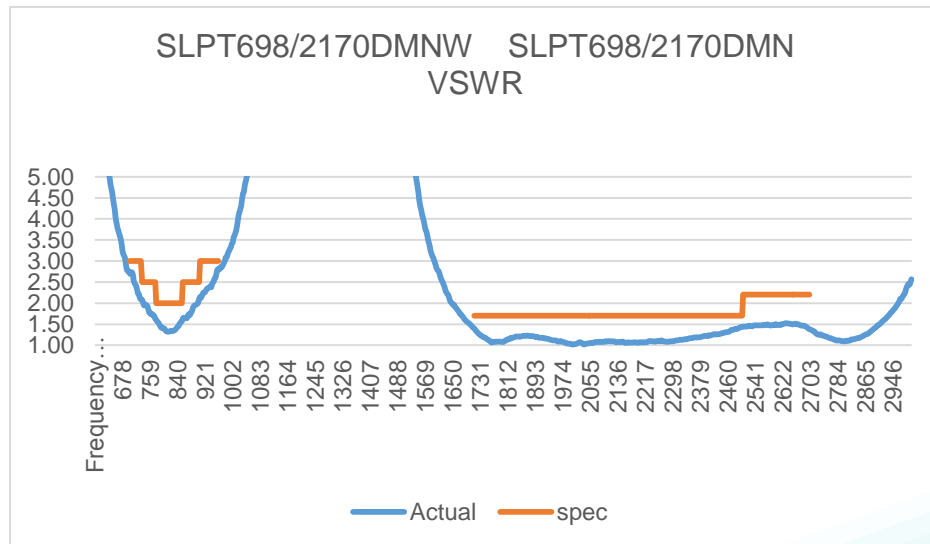
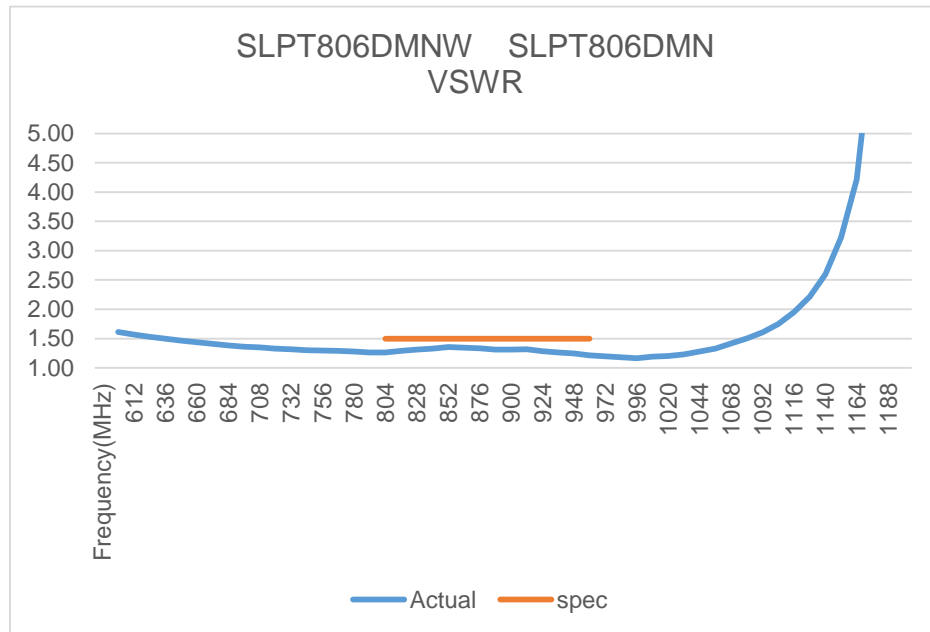
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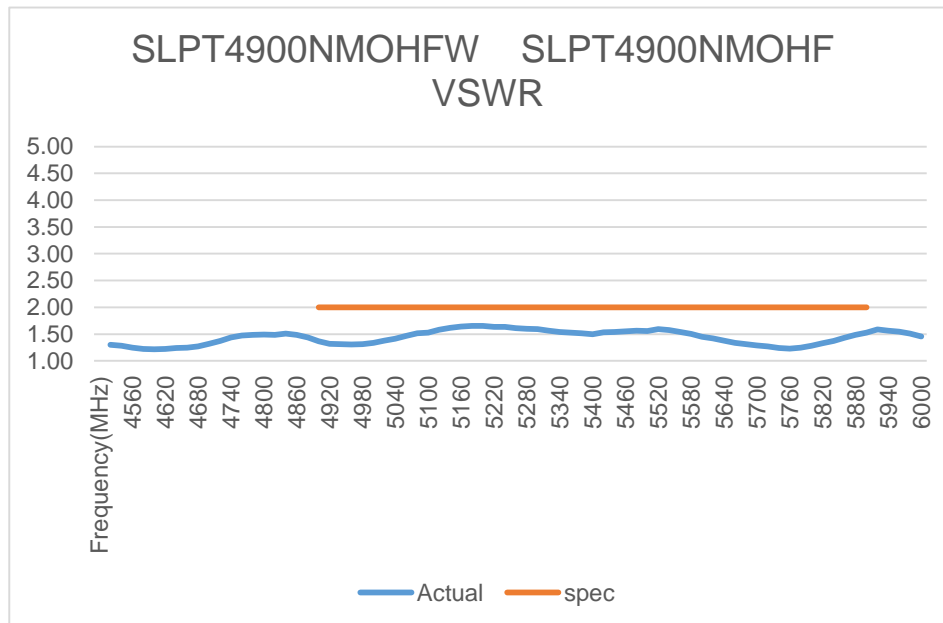
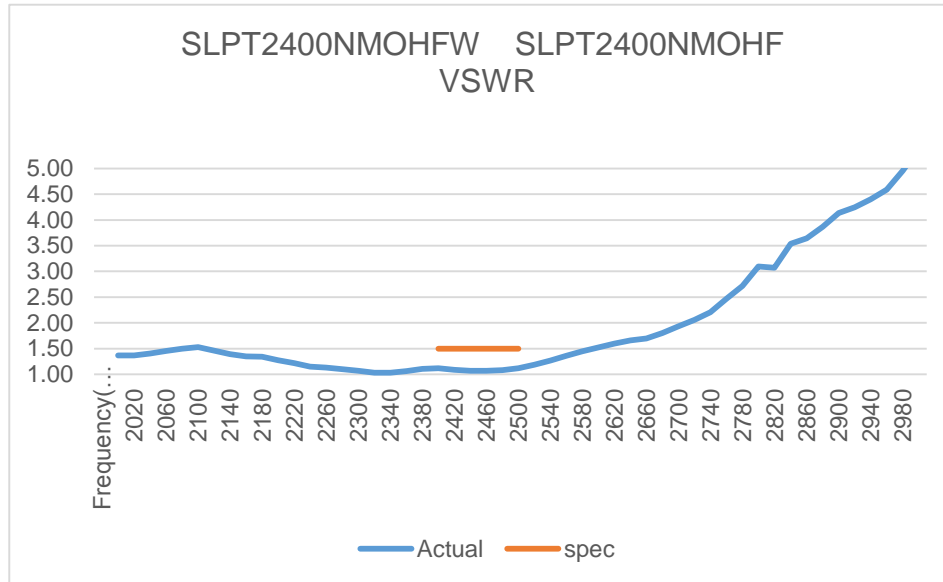
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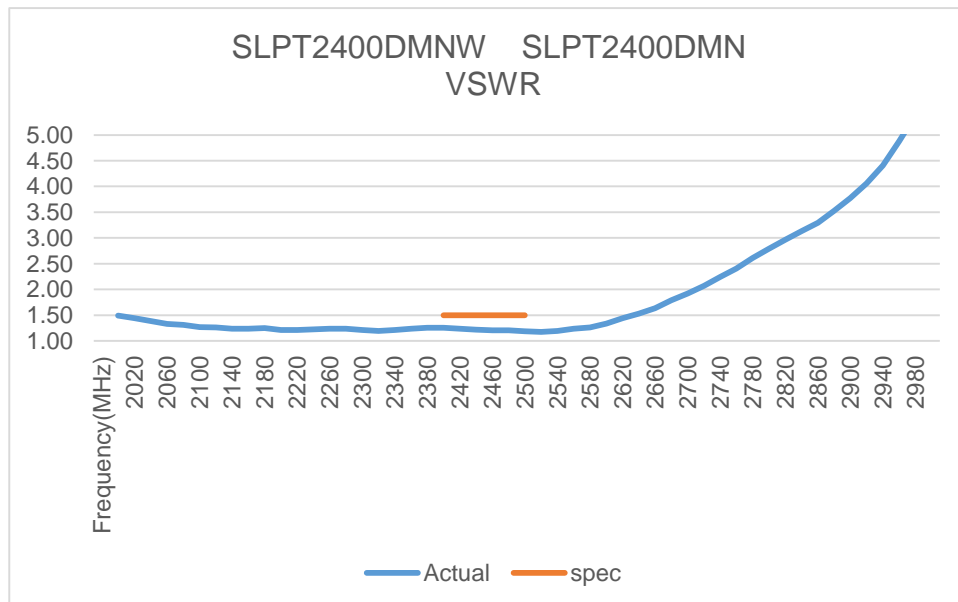
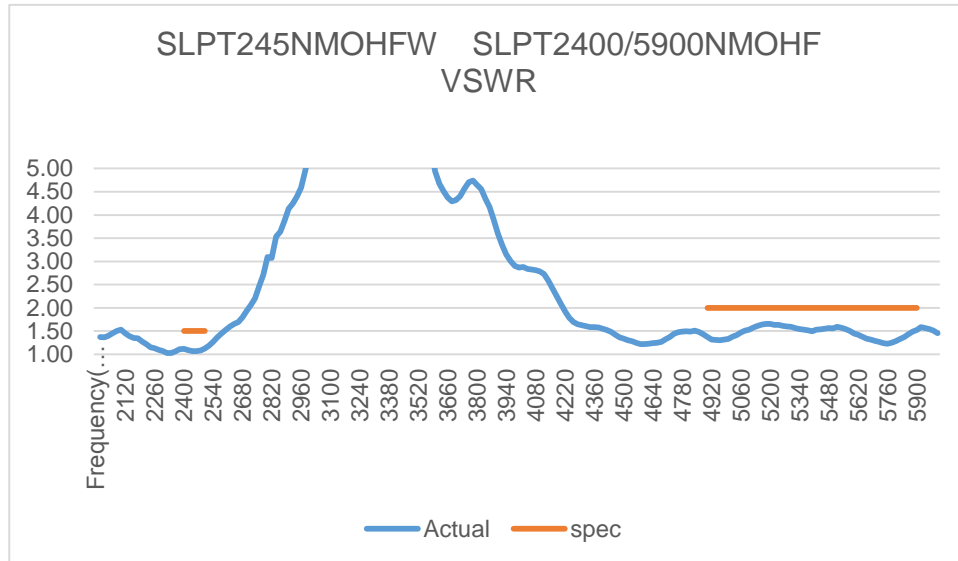
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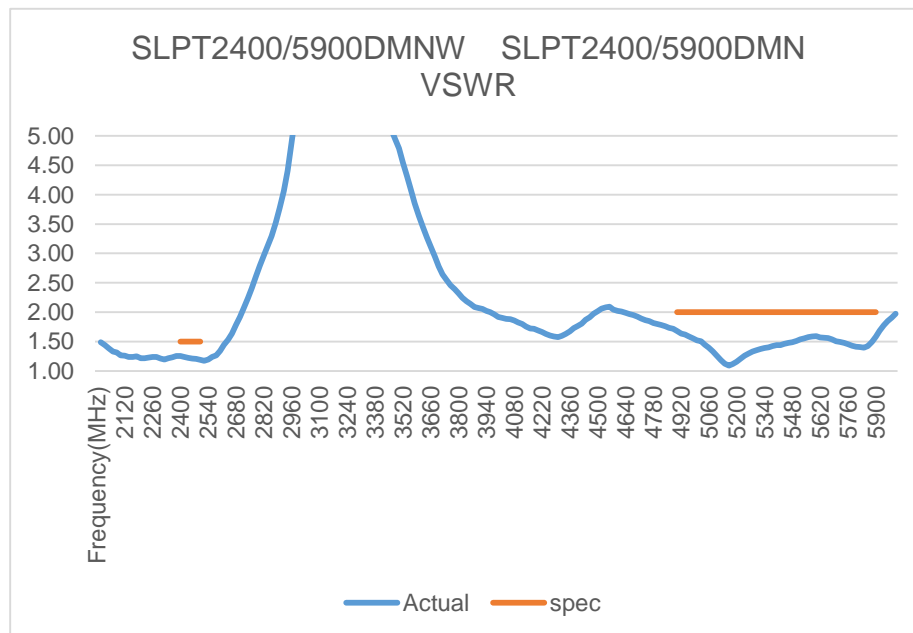
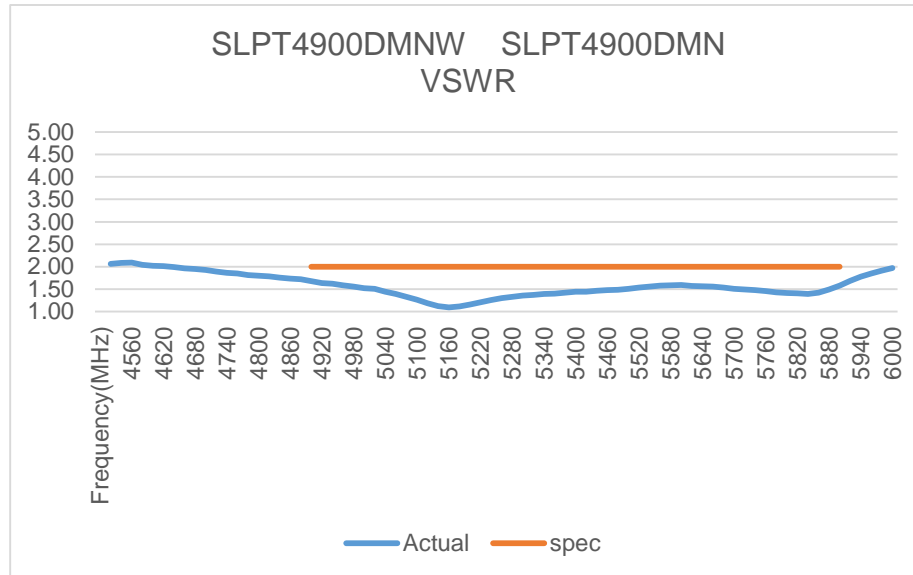
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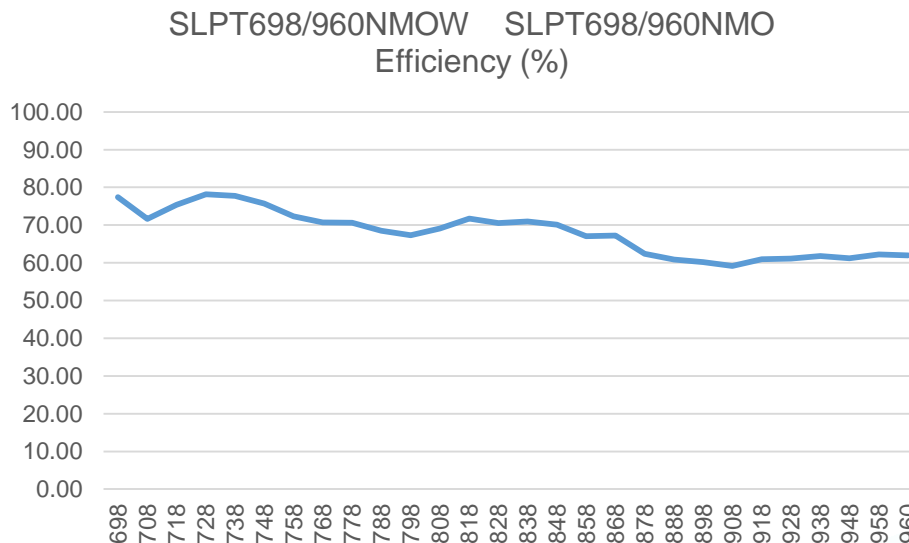
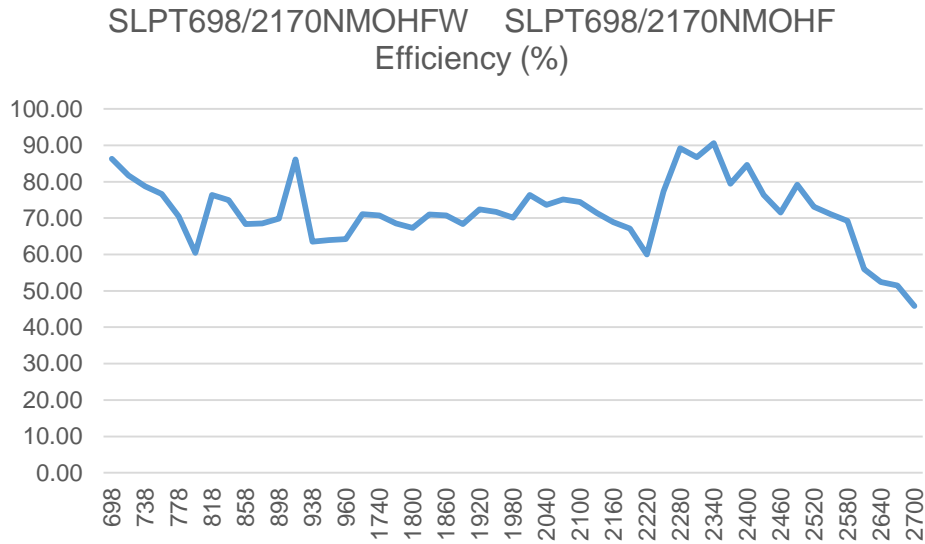
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### CHARTS

#### Efficiency(%)



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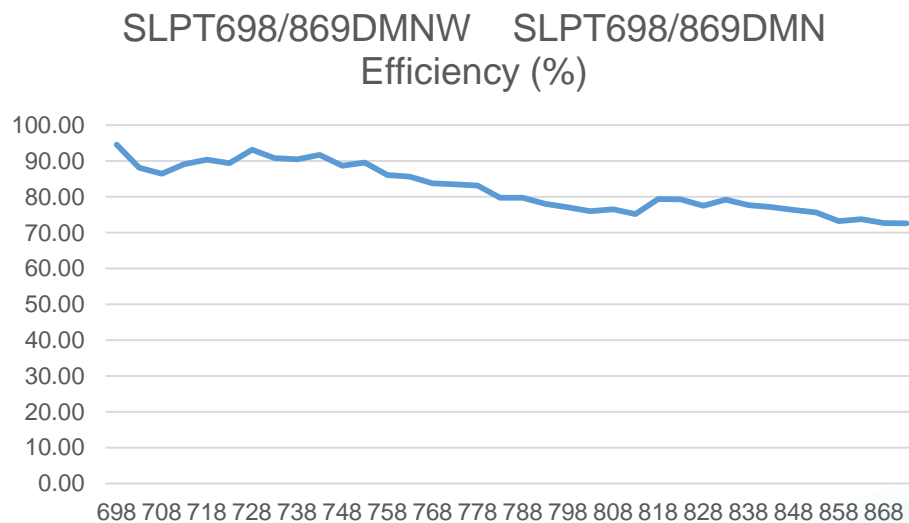
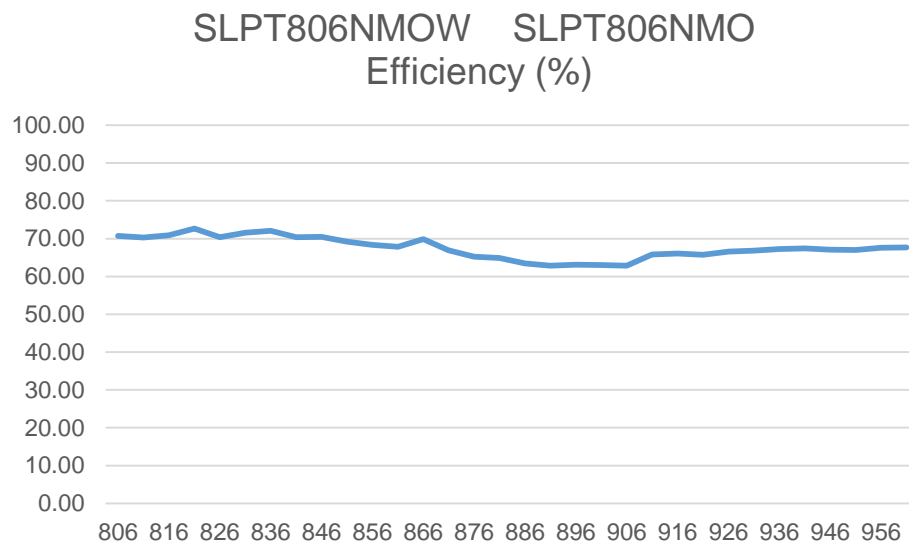
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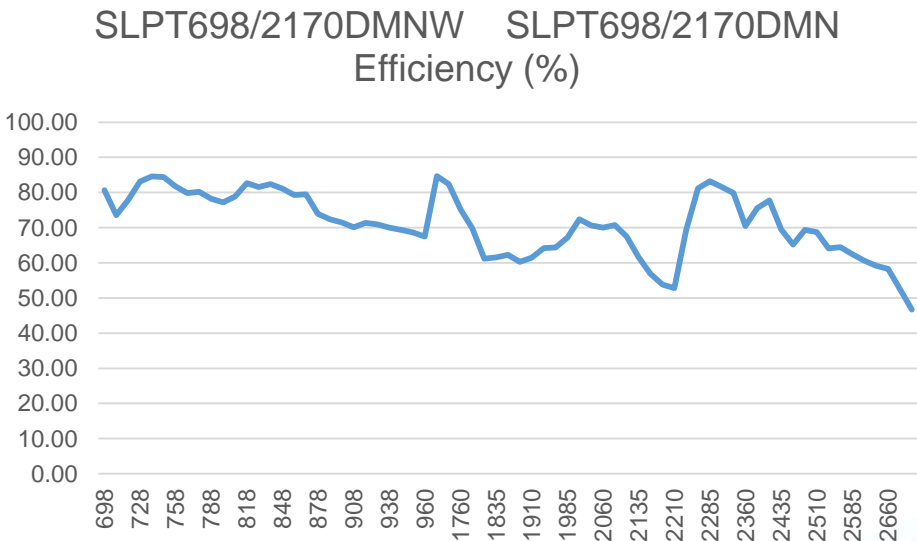
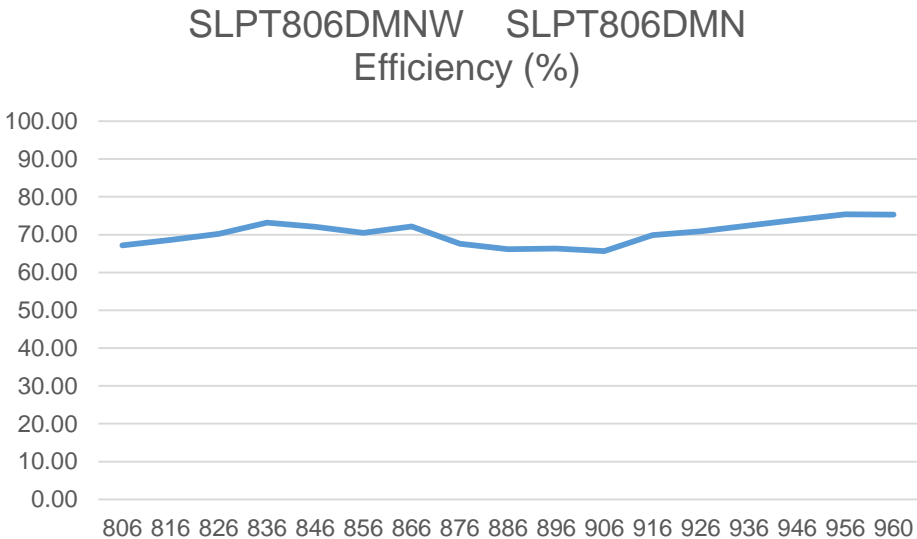
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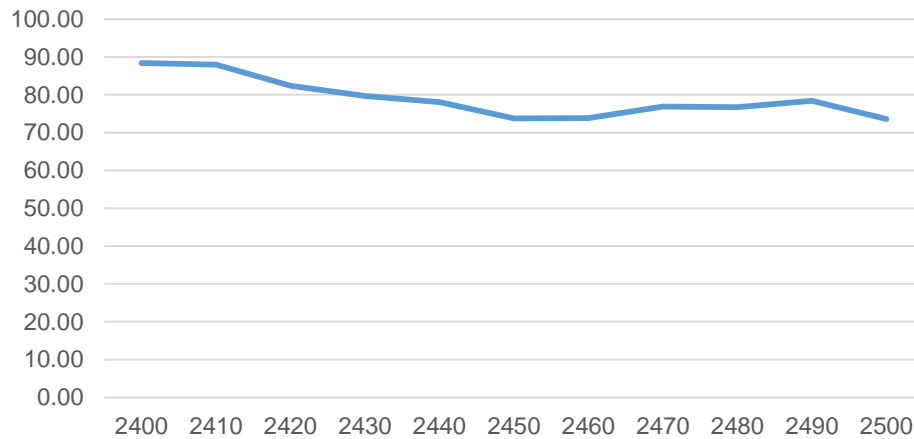
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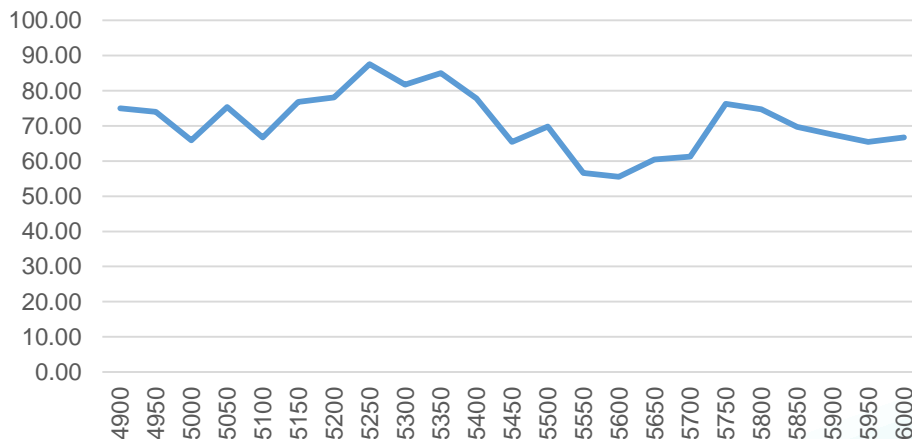
### CHARTS

#### Efficiency(%)

SLPT2400NMOHFW SLPT2400NMOHF  
Efficiency (%)



SLPT4900NMOHFW SLPT4900NMOHF  
Efficiency (%)



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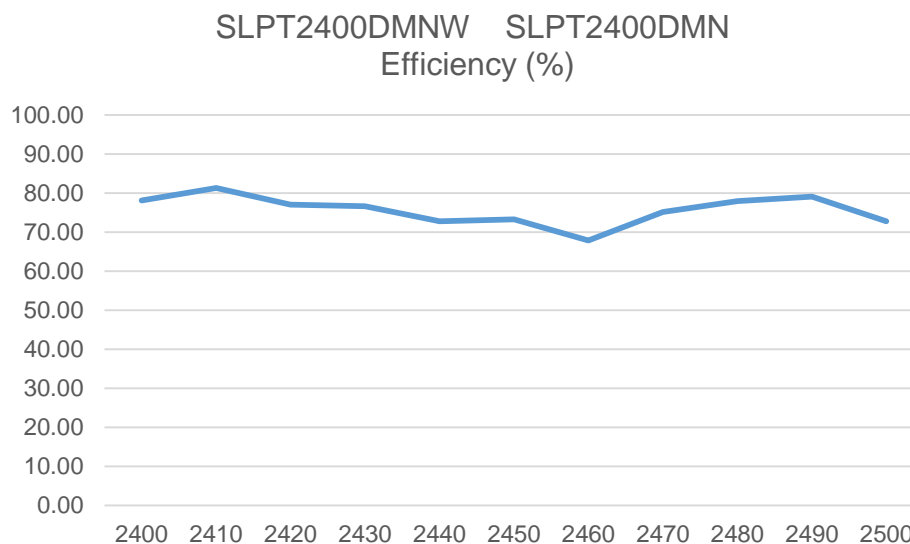
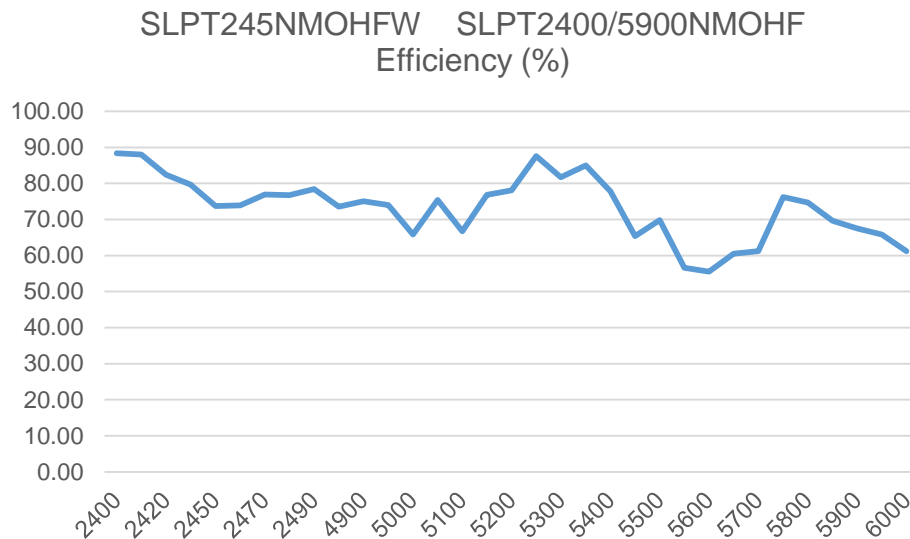
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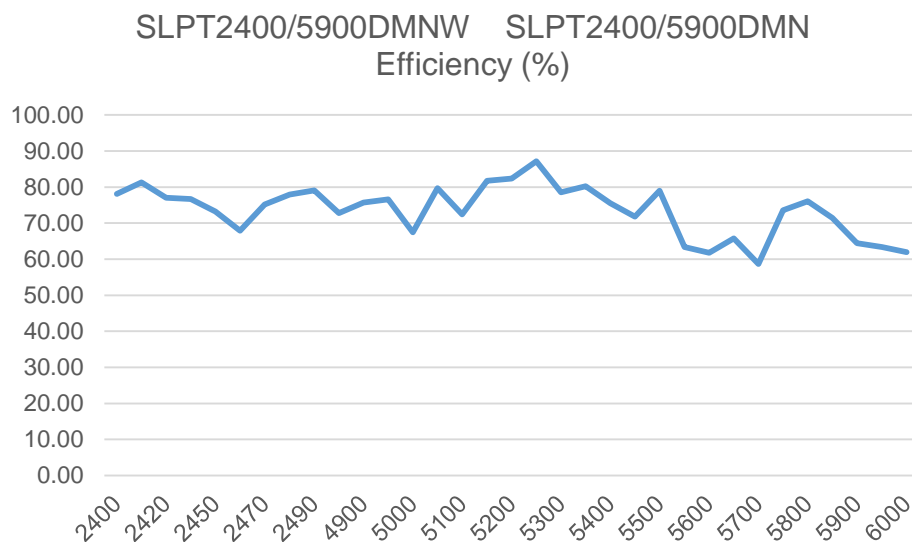
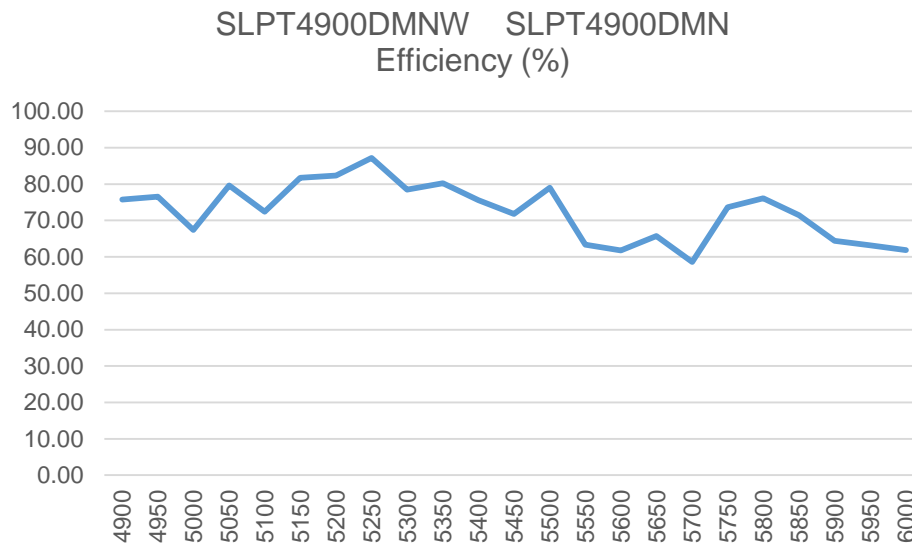
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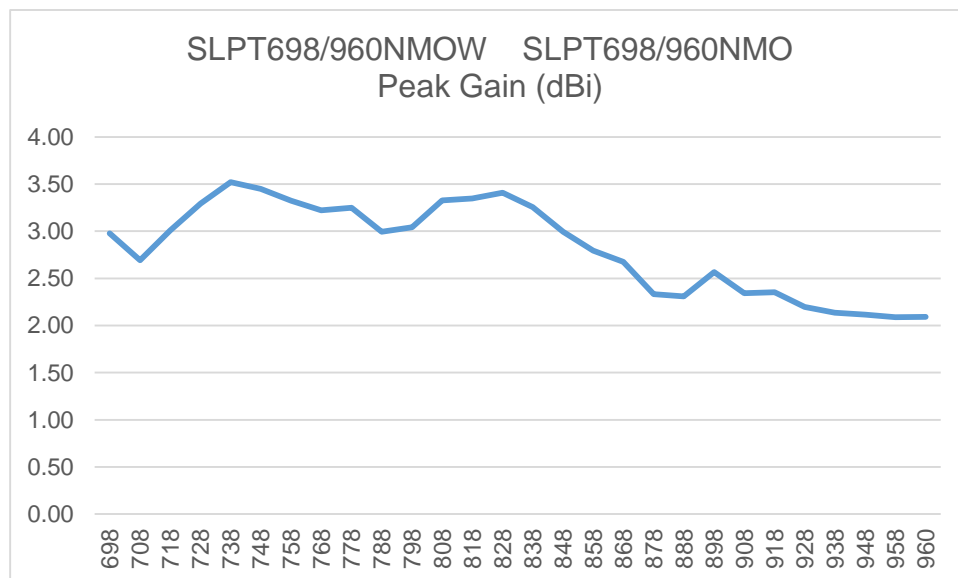
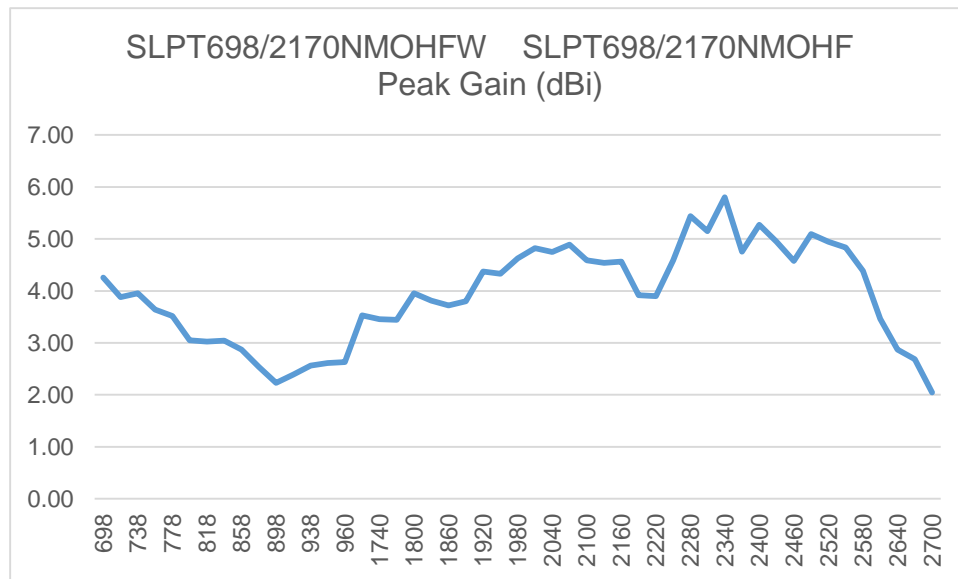
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## CHARTS

### Peak Gain (dBi)



Issue: 1640

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

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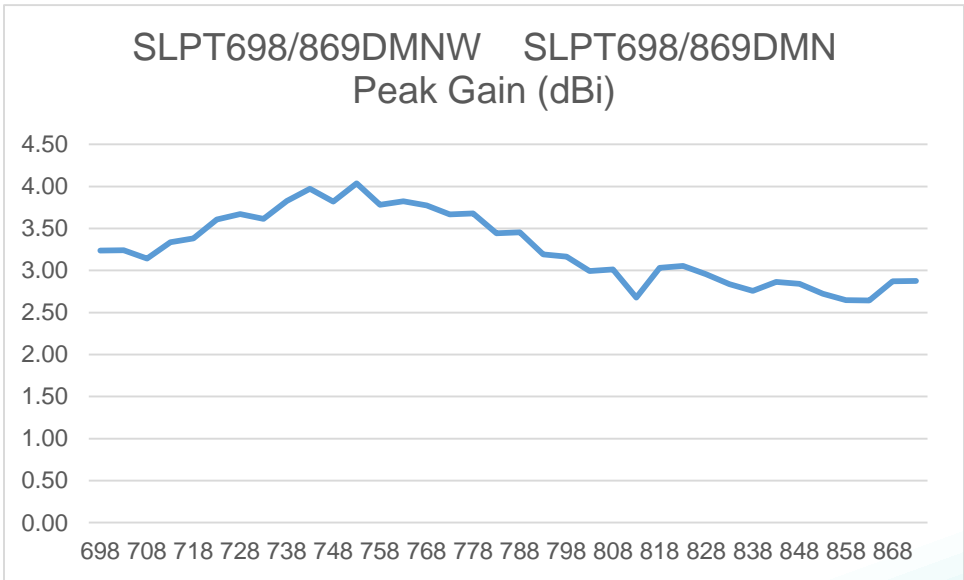
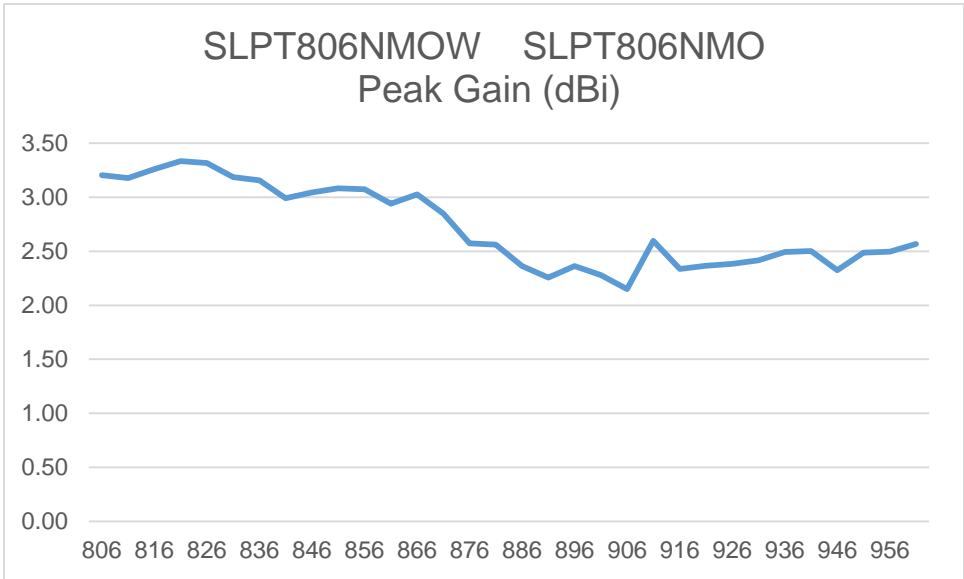
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Peak Gain (dBi)



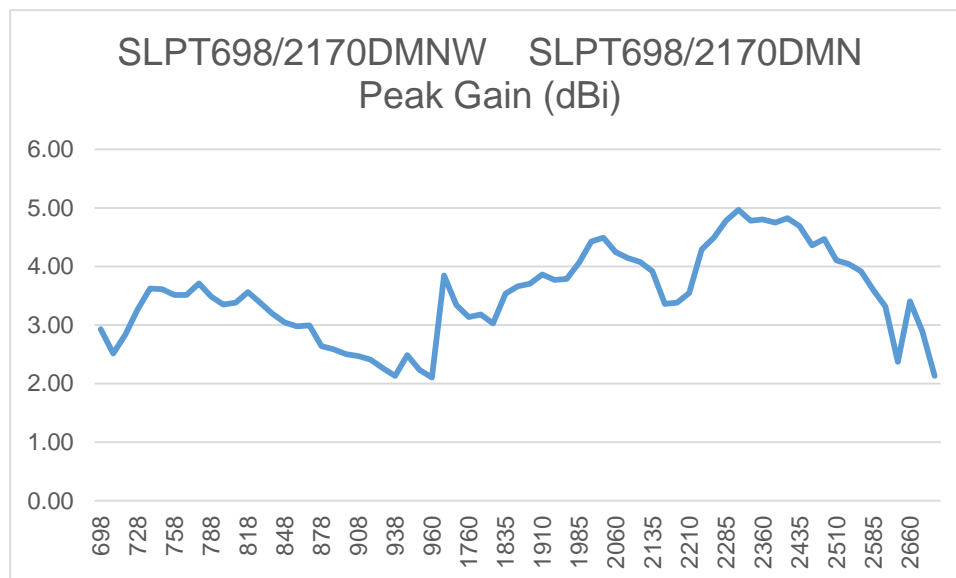
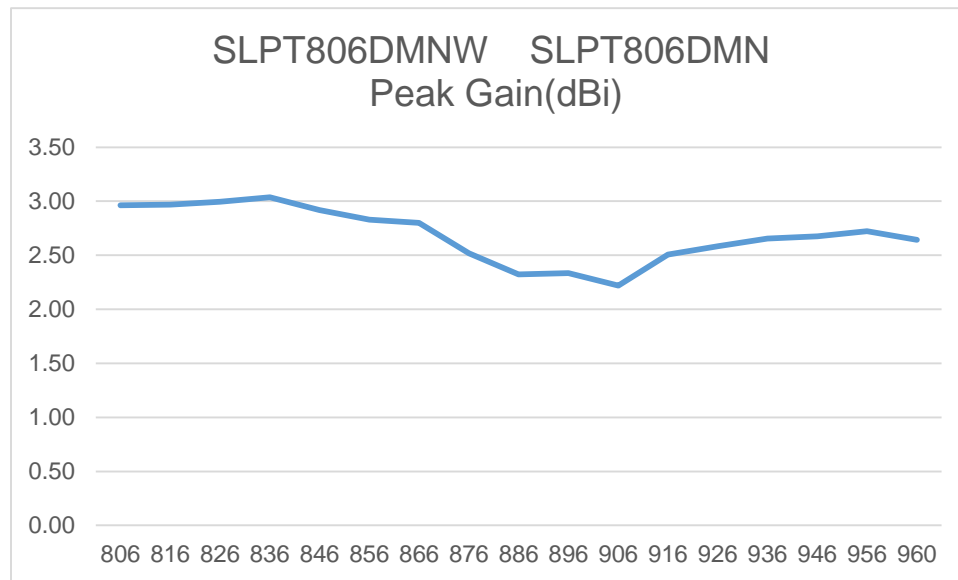
**Description: ON-VEHICLE LOW PROFILE ANTENNA**

**Series: Shadow**

**PART NUMBER: Black: SLPTXXX / White: SLPTXXXW**

## CHARTS

### Peak Gain (dBi)



Issue: 1640

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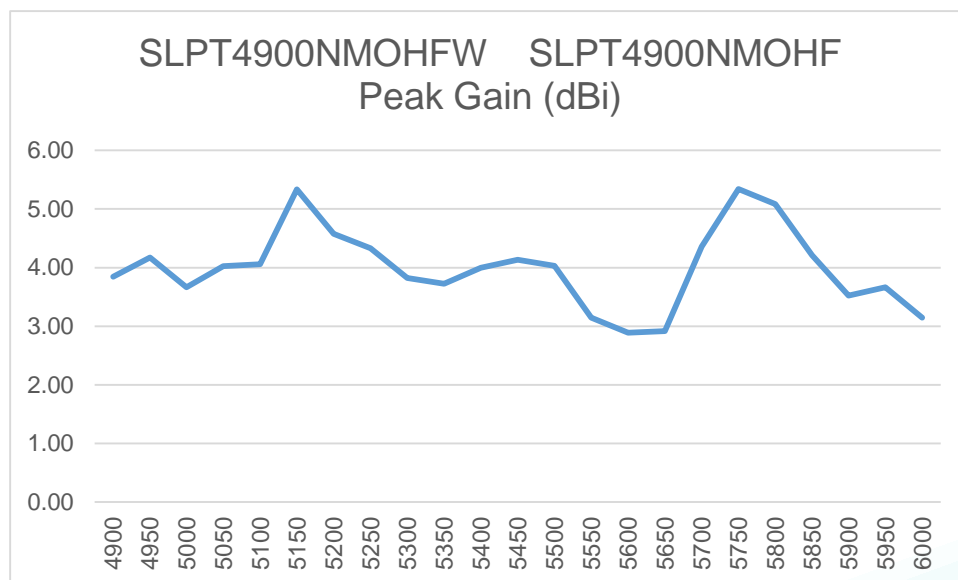
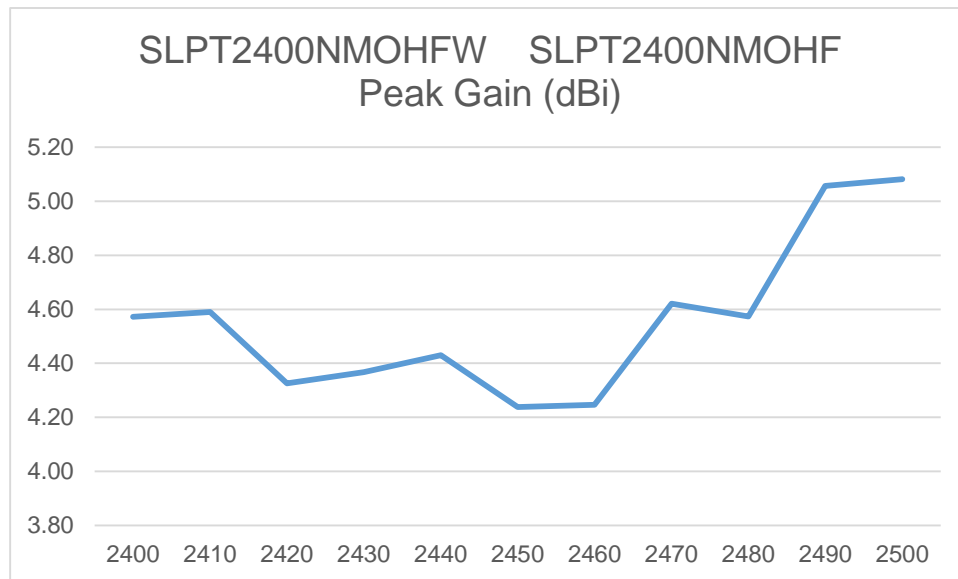
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

## CHARTS

### Peak Gain (dBi)



Issue: 1640

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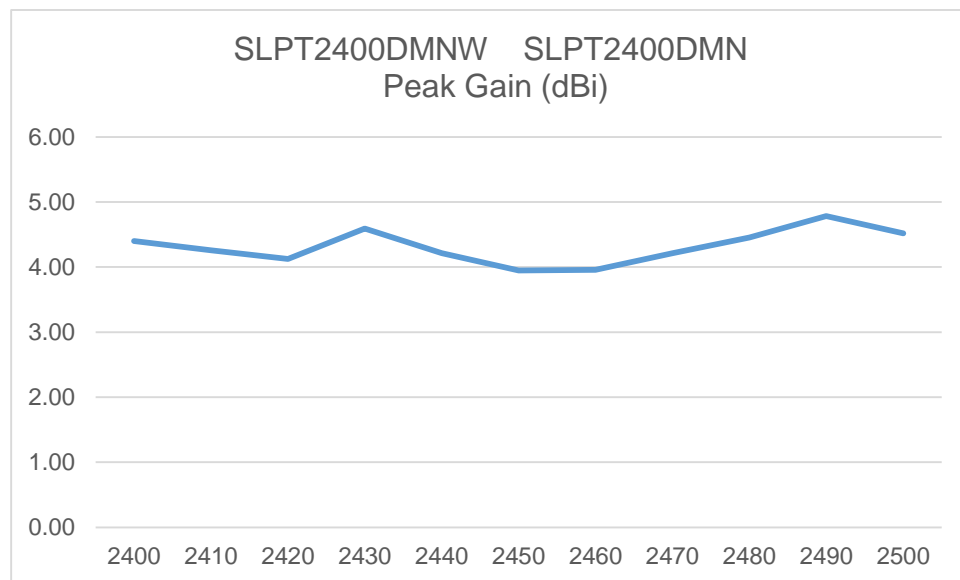
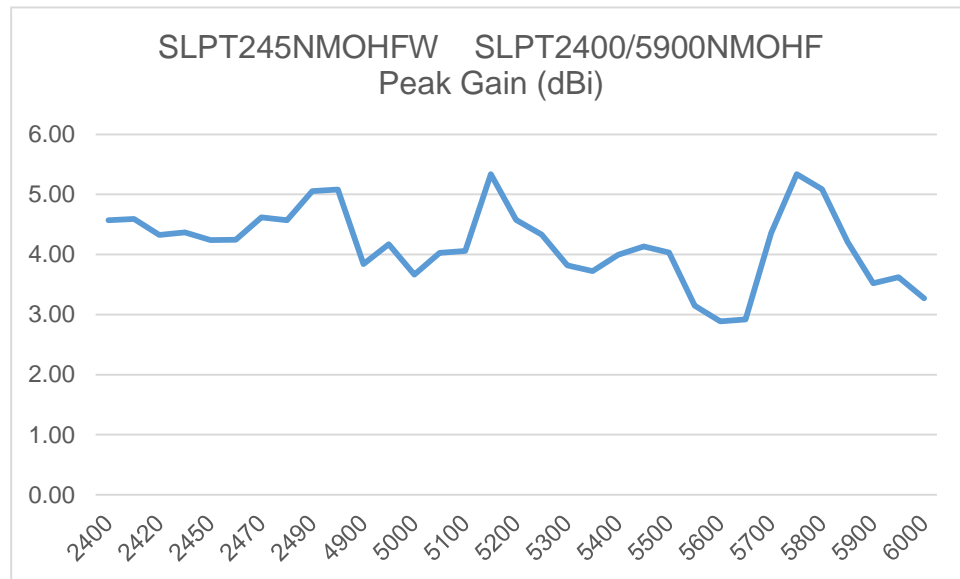
## Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

### CHARTS

#### Peak Gain (dBi)



Issue: 1640

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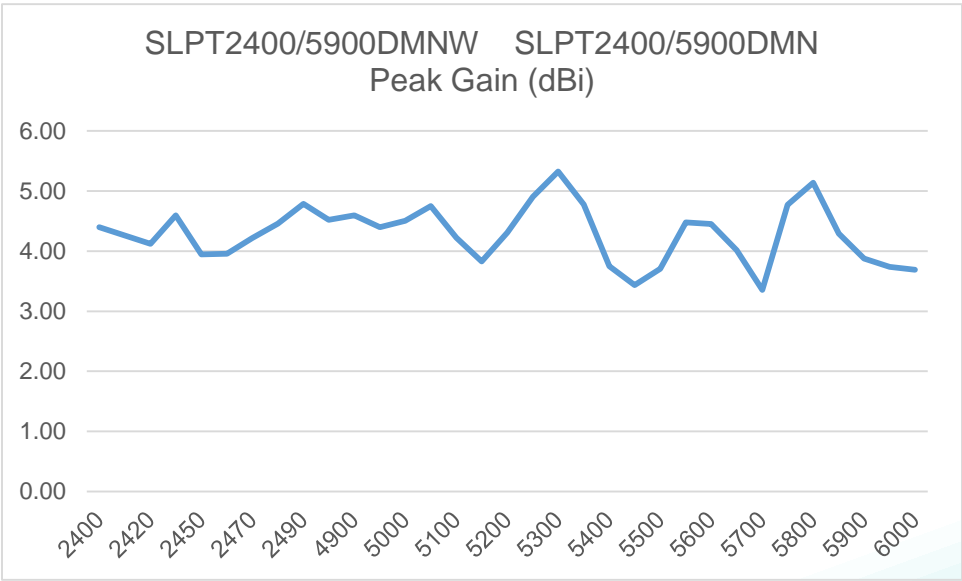
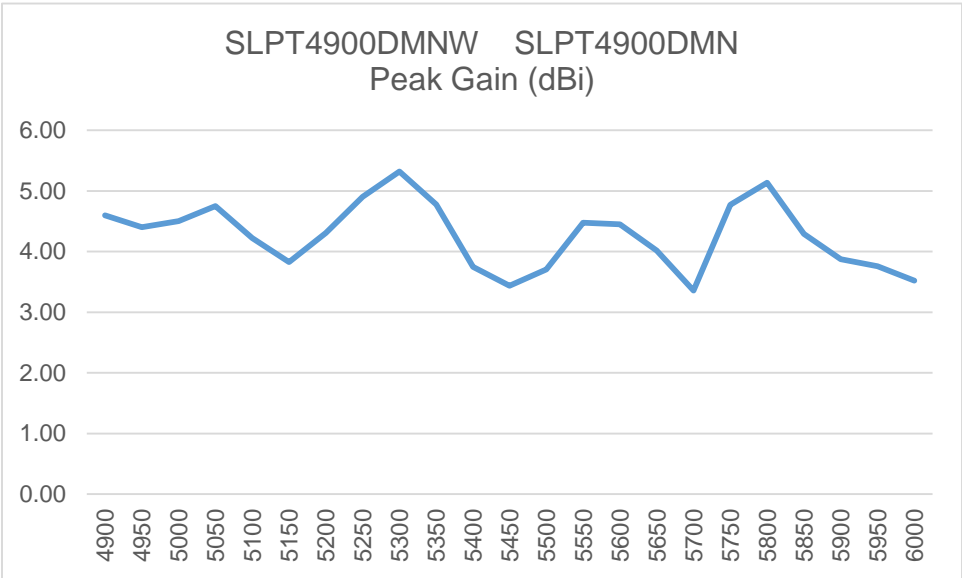
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Peak Gain (dBi)





Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

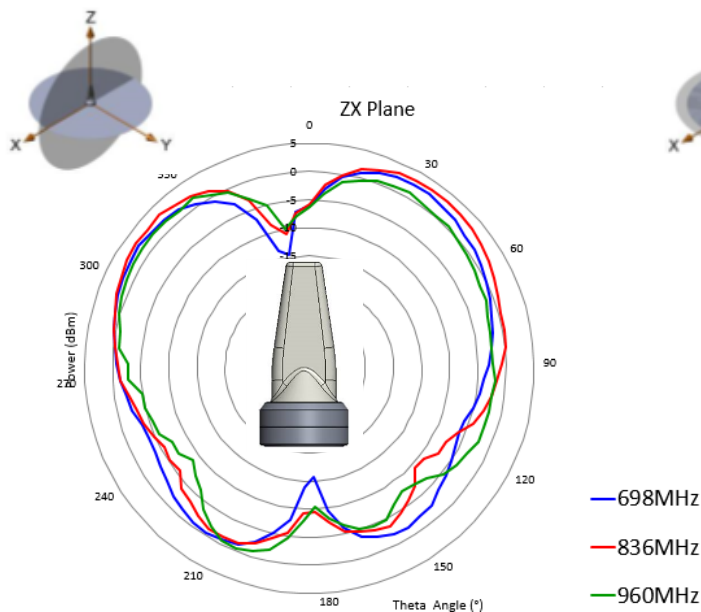
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

## CHARTS

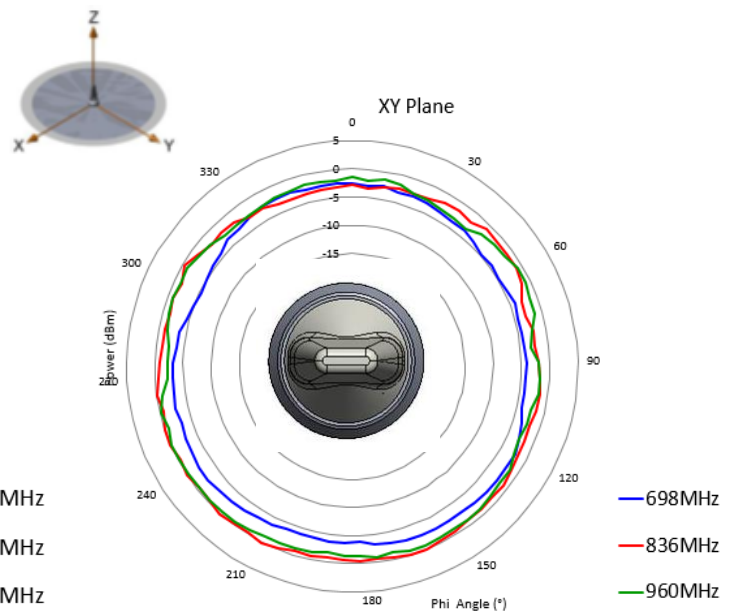
### Free Space Radiation Pattern

SLPT698/2170NMOHFW SLPT698/2170NMOHF

#### Elevation Plane



#### Horizontal Plane



Issue: 1640

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

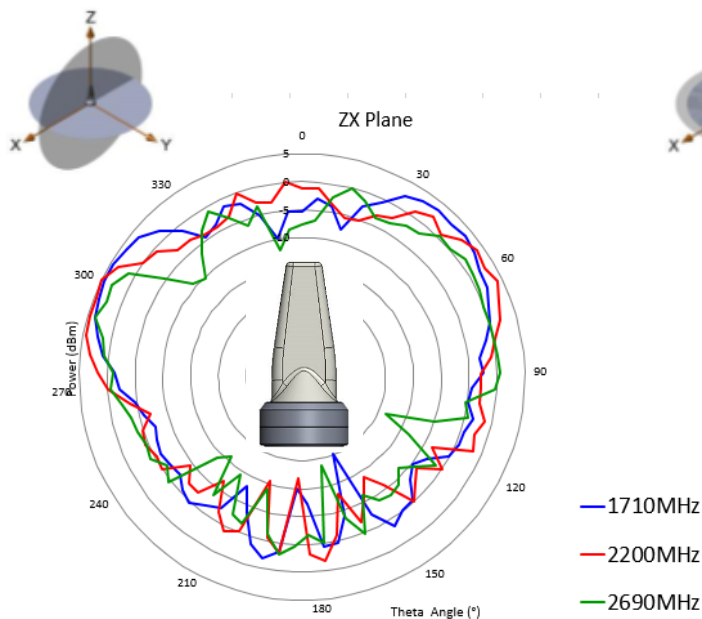
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

## CHARTS

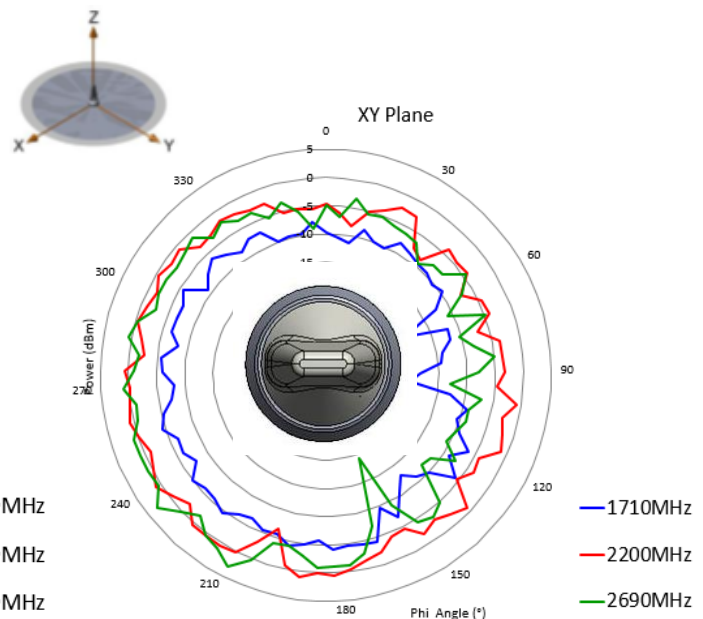
### Free Space Radiation Pattern

SLPT698/2170NMOHFW SLPT698/2170NMOHF

#### Elevation Plane



#### Horizontal Plane



Issue: 1640

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## Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

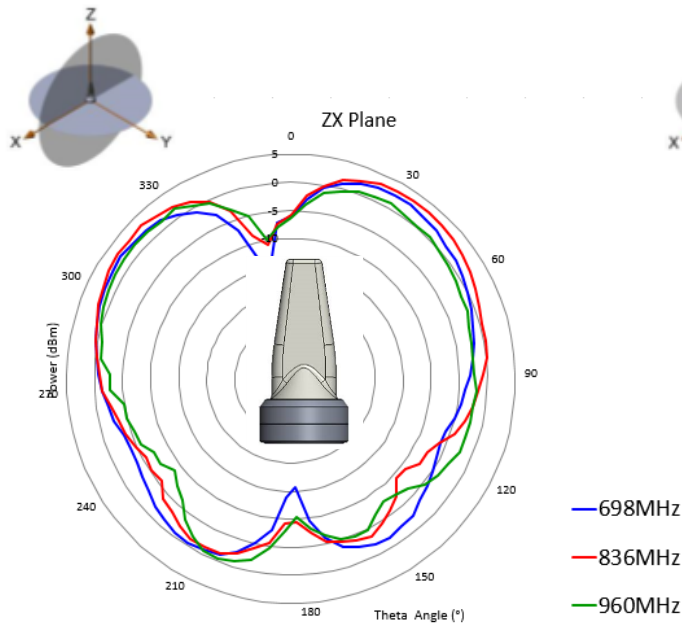
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

### CHARTS

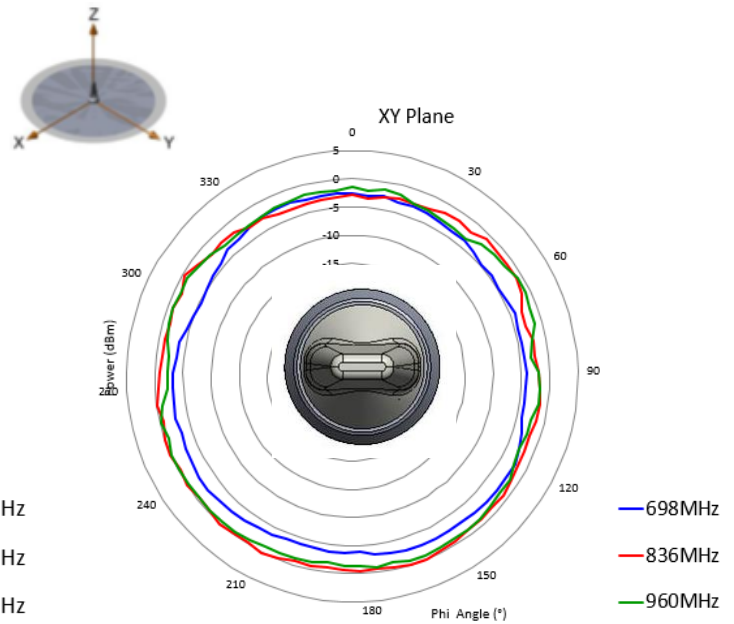
#### Free Space Radiation Pattern

SLPT698/960NMOW SLPT698/960NMO

#### Elevation Plane



#### Horizontal Plane



Issue: 1640

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

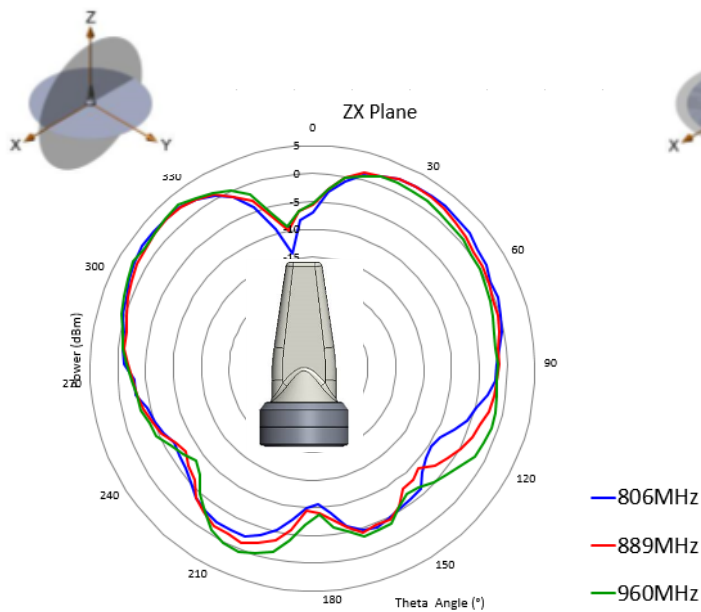
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

## CHARTS

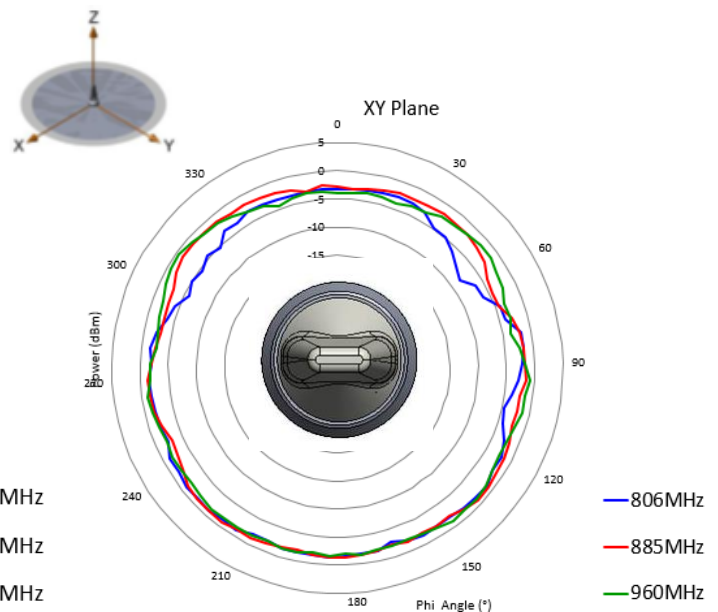
### Free Space Radiation Pattern

SLPT806NMOW SLPT806NMO

#### Elevation Plane



#### Horizontal Plane



Issue: 1640

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

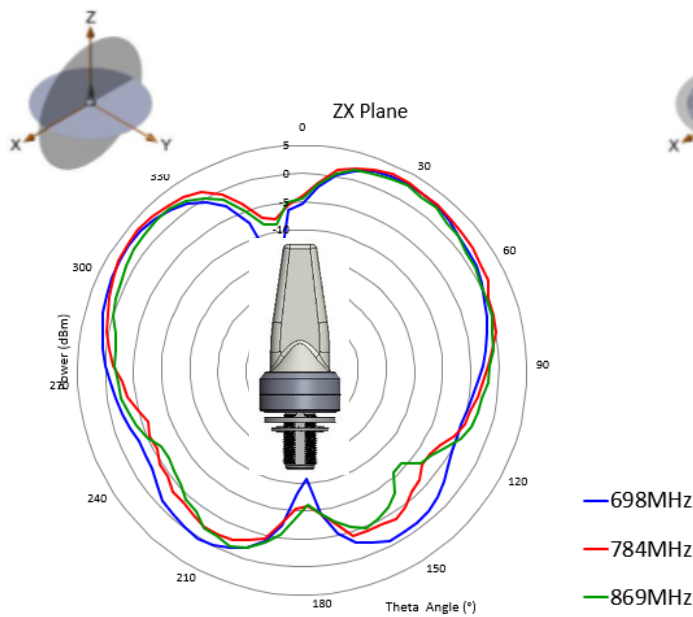
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

## CHARTS

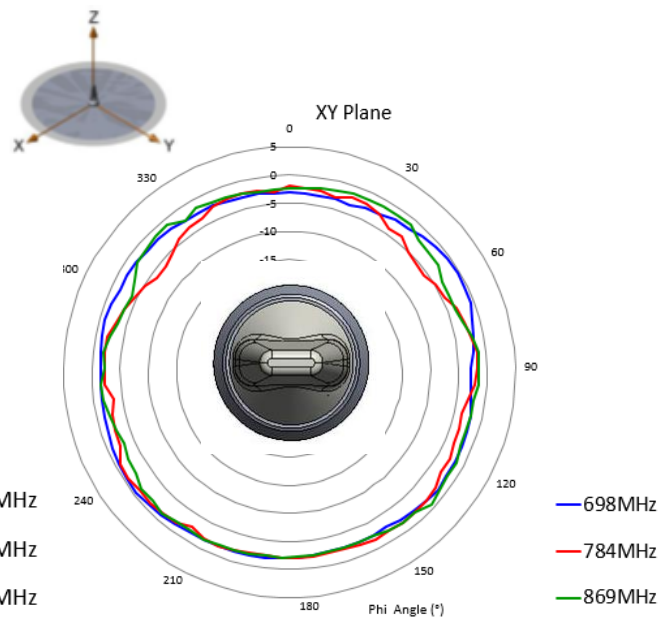
### Free Space Radiation Pattern

SLPT698/869DMNW SLPT698/869DMN

#### Elevation Plane



#### Horizontal Plane



Issue: 1640

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

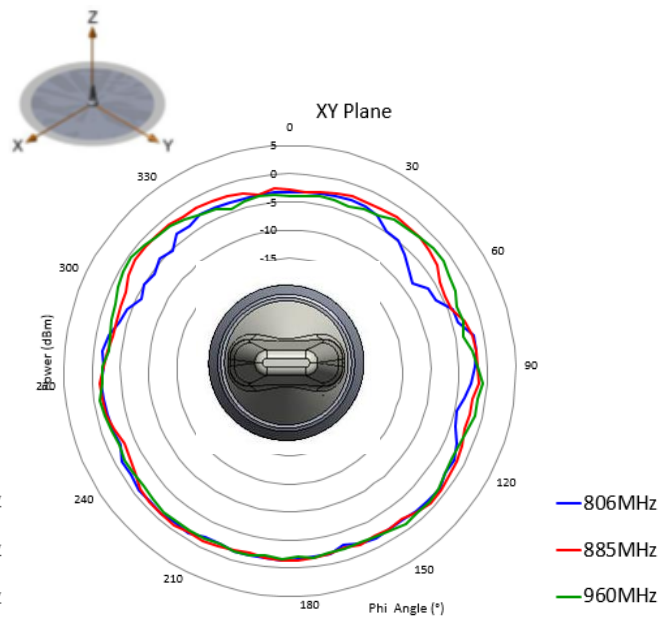
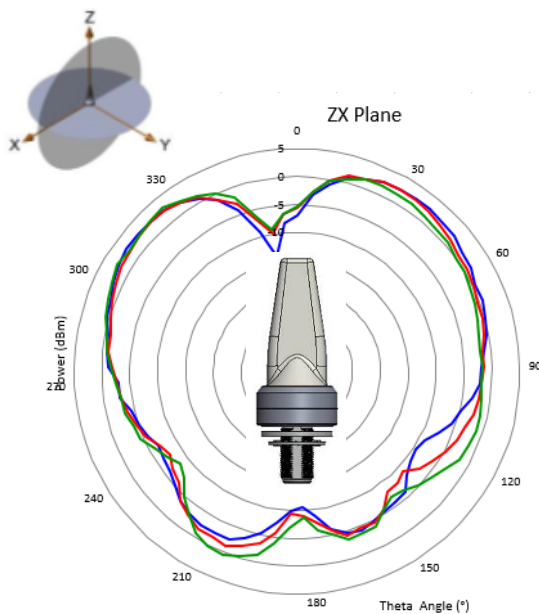
## CHARTS

### Free Space Radiation Pattern

SLPT806DMNW SLPT806DMN

#### Elevation Plane

#### Horizontal Plane



Issue: 1640

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

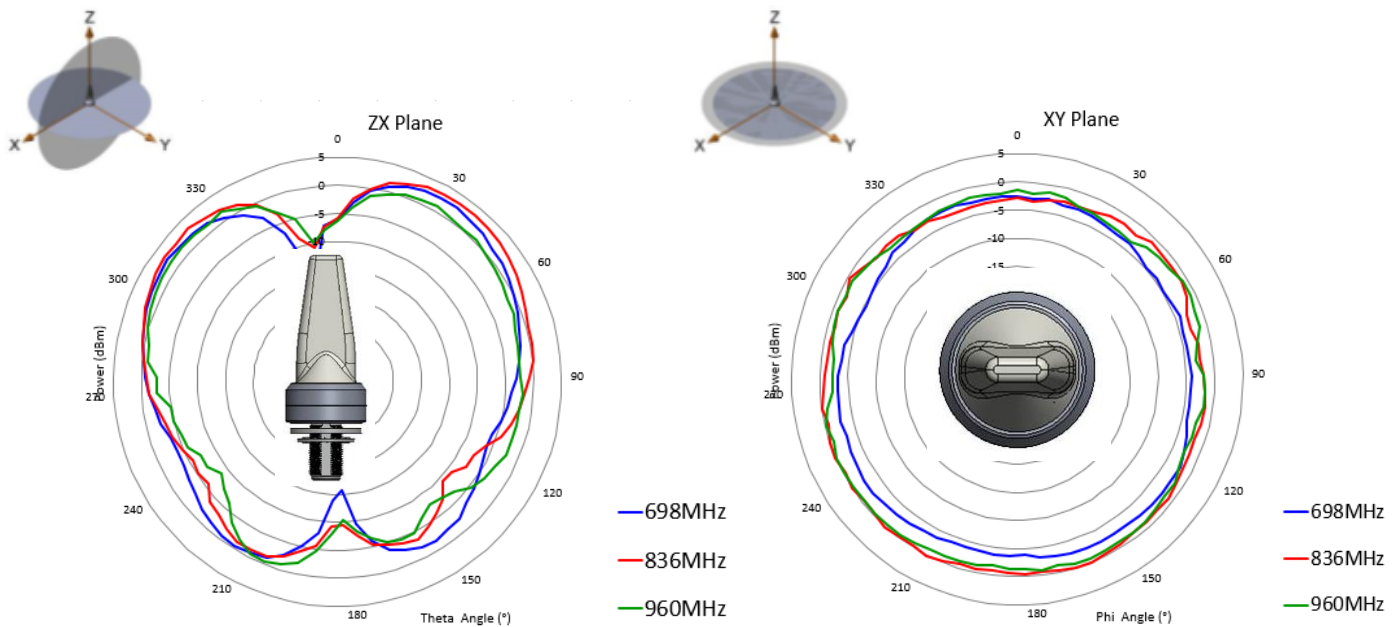
## CHARTS

### Free Space Radiation Pattern

SLPT698/2170DMNW SLPT698/2170DMN

#### Elevation Plane

#### Horizontal Plane



Issue: 1640

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

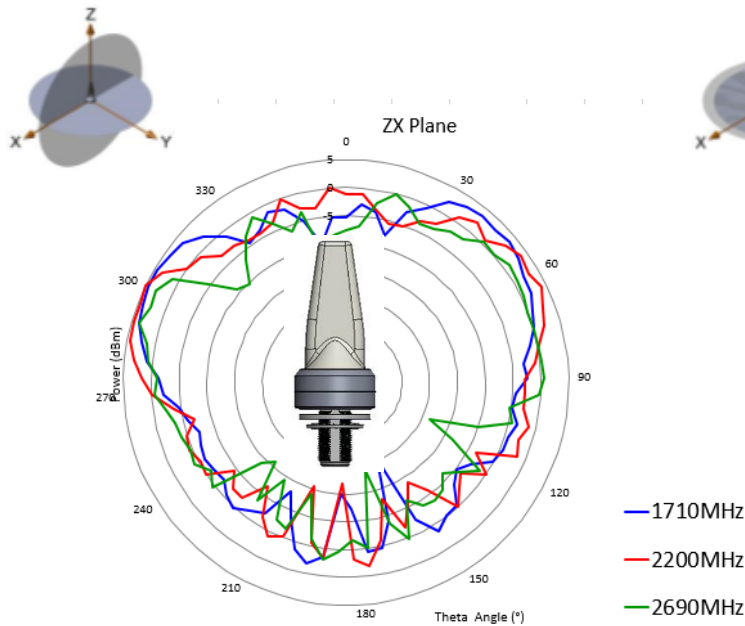
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

## CHARTS

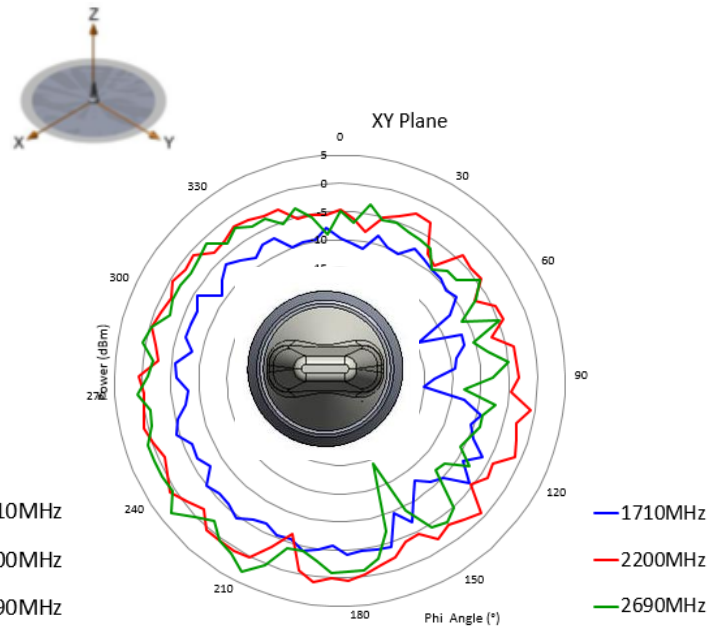
### Free Space Radiation Pattern

SLPT698/2170DMNW SLPT698/2170DMN

#### Elevation Plane



#### Horizontal Plane



Issue: 1640

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

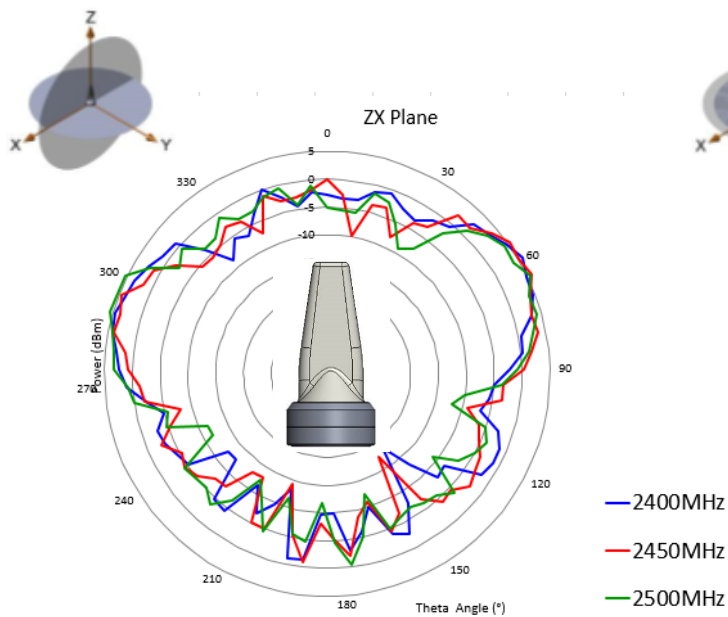
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

## CHARTS

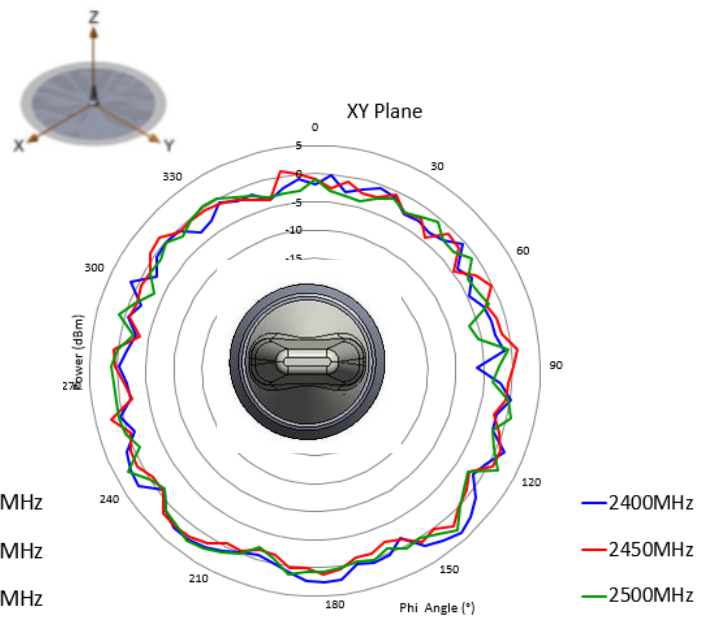
### Free Space Radiation Pattern

SLPT2400NMOHFW SLPT2400NMOHF

#### Elevation Plane



#### Horizontal Plane



Issue: 1640

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## Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

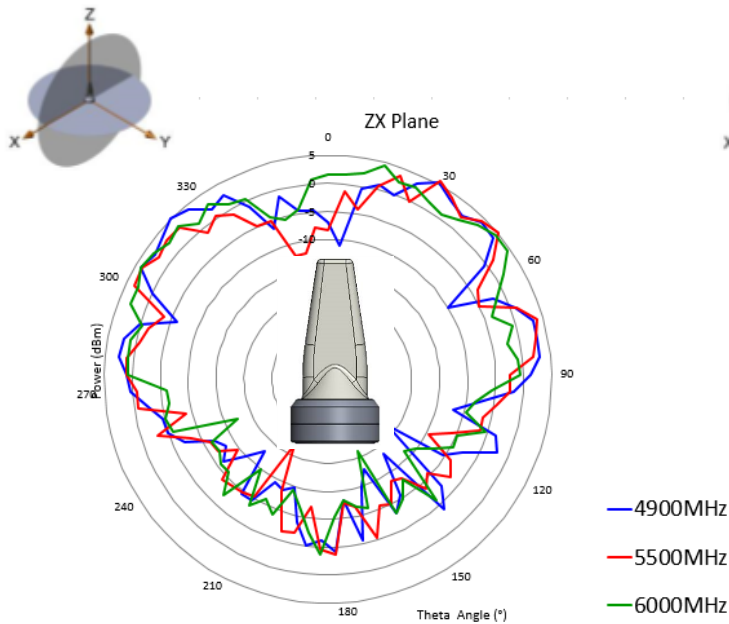
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

### CHARTS

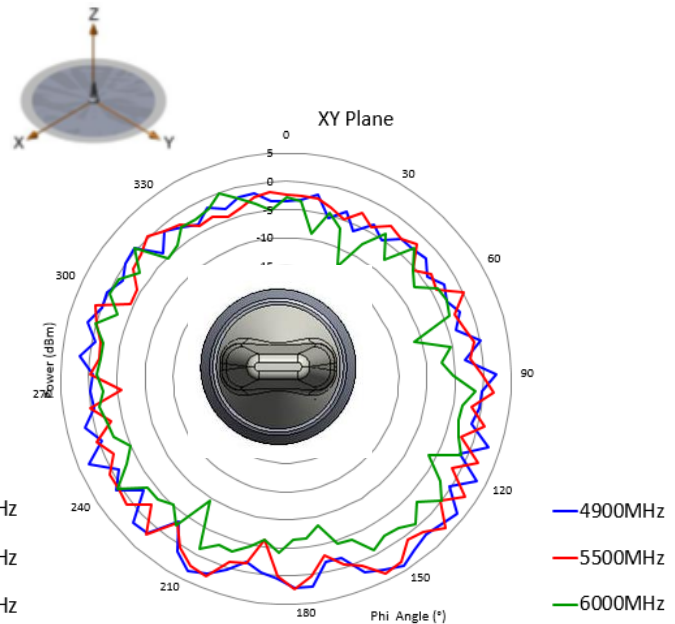
#### Free Space Radiation Pattern

SLPT4900NMOHFW SLPT4900NMOHF

#### Elevation Plane



#### Horizontal Plane



Issue: 1640

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

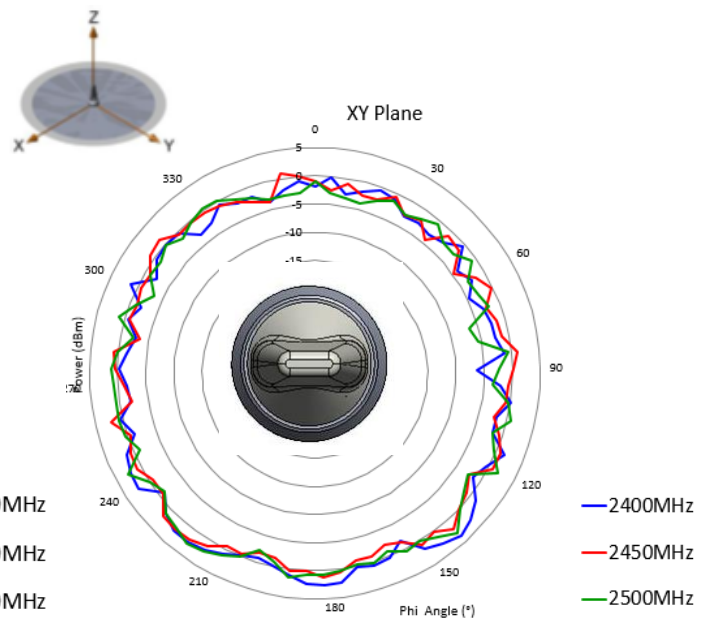
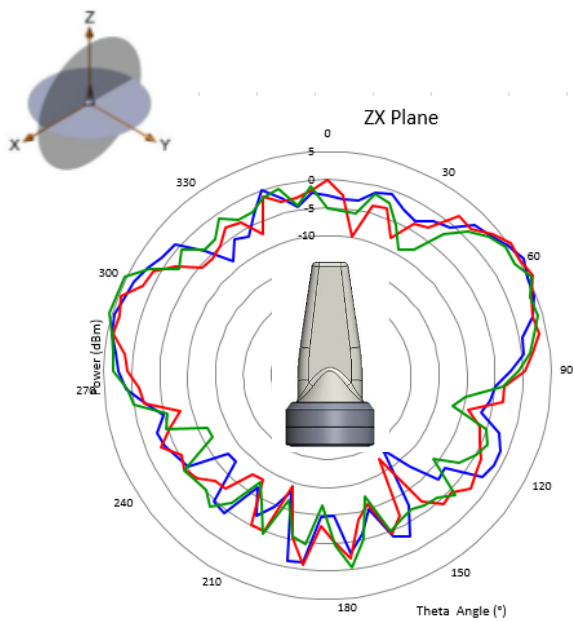
## CHARTS

### Free Space Radiation Pattern

SLPT245NMOHFW SLPT2400/5900NMOHF

#### Elevation Plane

#### Horizontal Plane



Issue: 1640

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

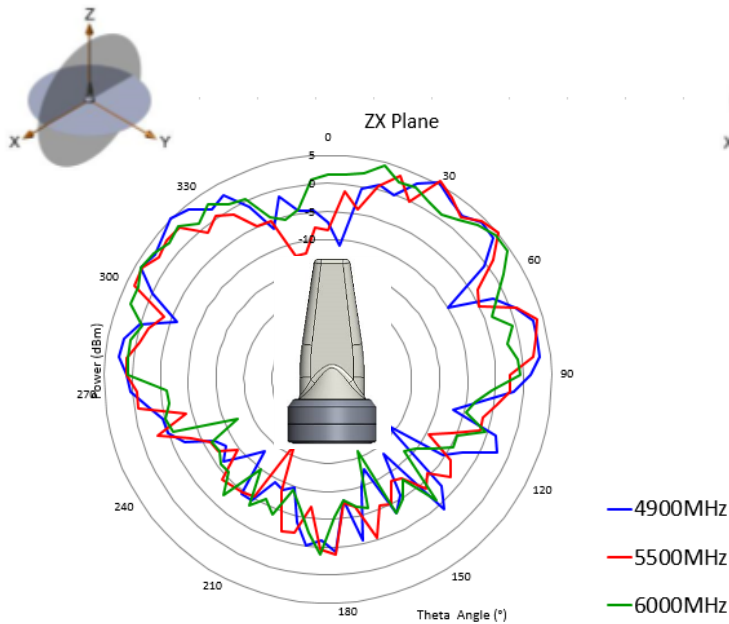
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

## CHARTS

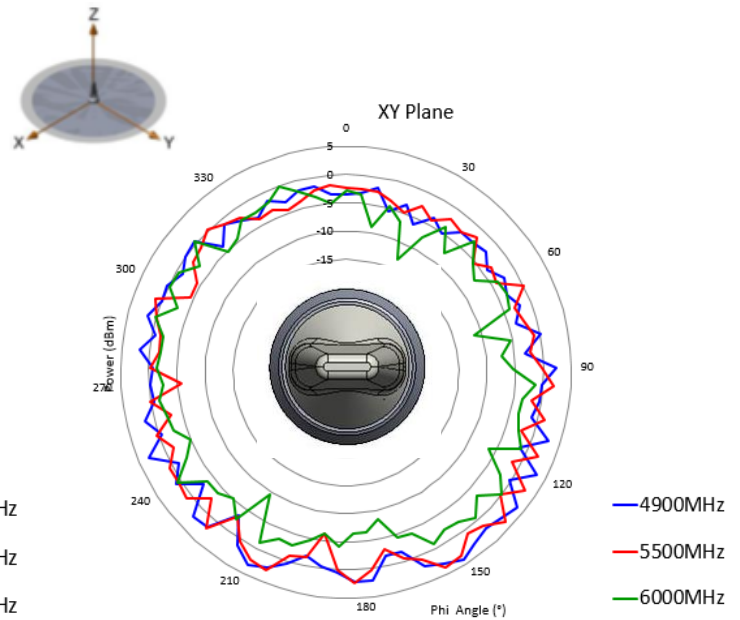
### Free Space Radiation Pattern

SLPT245NMOHFW SLPT2400/5900NMOHF

#### Elevation Plane



#### Horizontal Plane



Issue: 1640

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

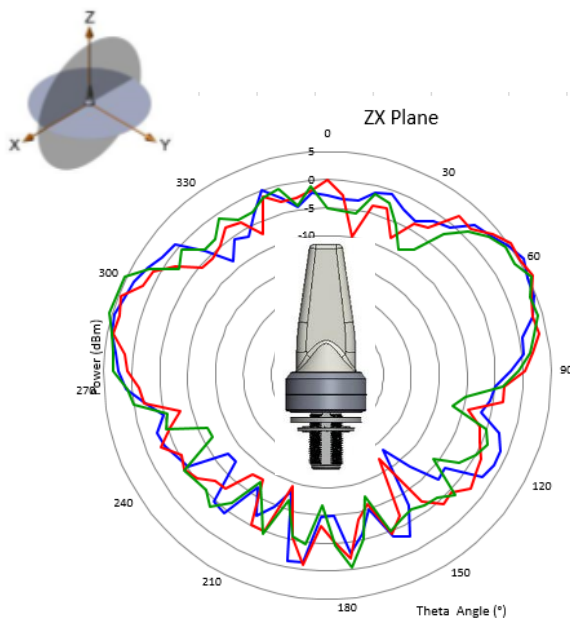
## CHARTS

### Free Space Radiation Pattern

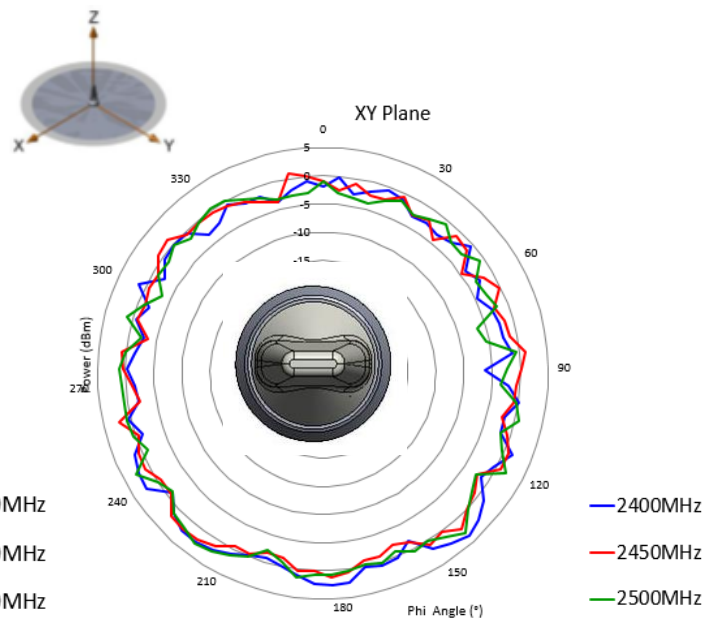
SLPT2400DMNW SLPT2400DMN

#### Elevation Plane

#### Horizontal Plane



— 2400MHz  
— 2450MHz  
— 2500MHz



— 2400MHz  
— 2450MHz  
— 2500MHz

Issue: 1640

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

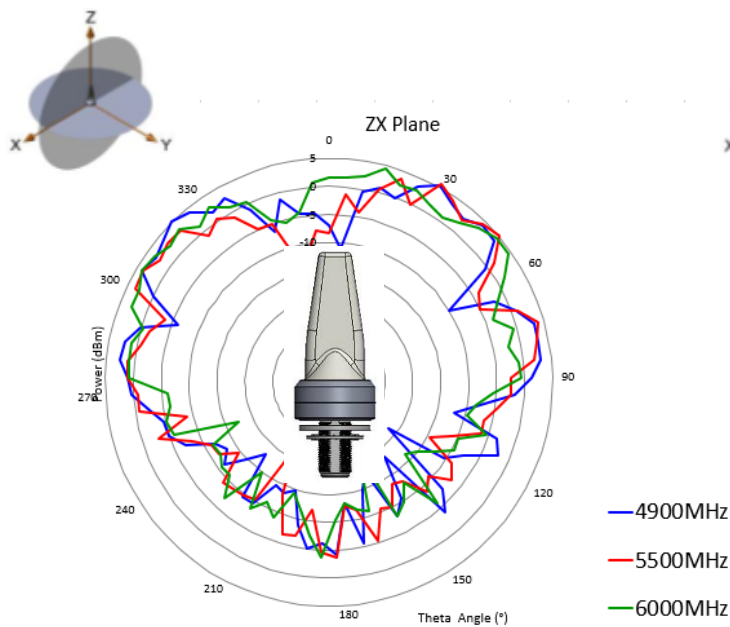
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

## CHARTS

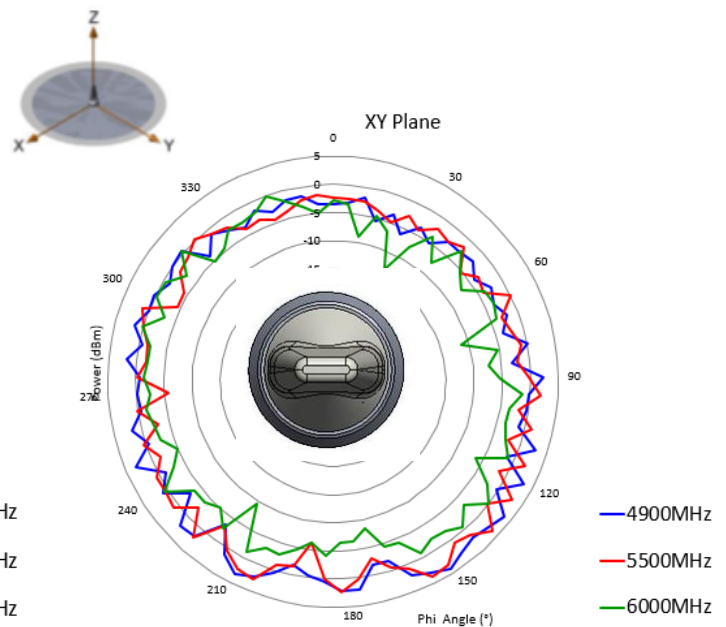
### Free Space Radiation Pattern

SLPT4900DMNW SLPT4900DMN

#### Elevation Plane



#### Horizontal Plane



Issue: 1640

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

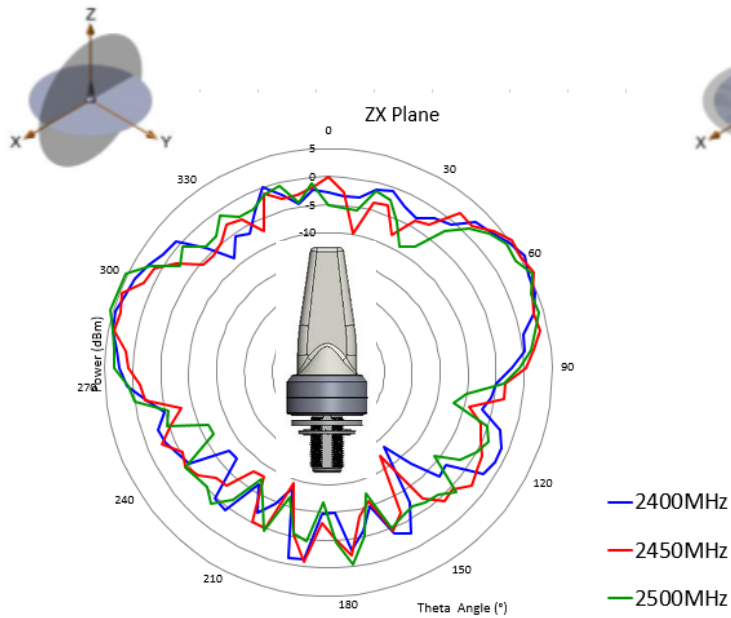
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

## CHARTS

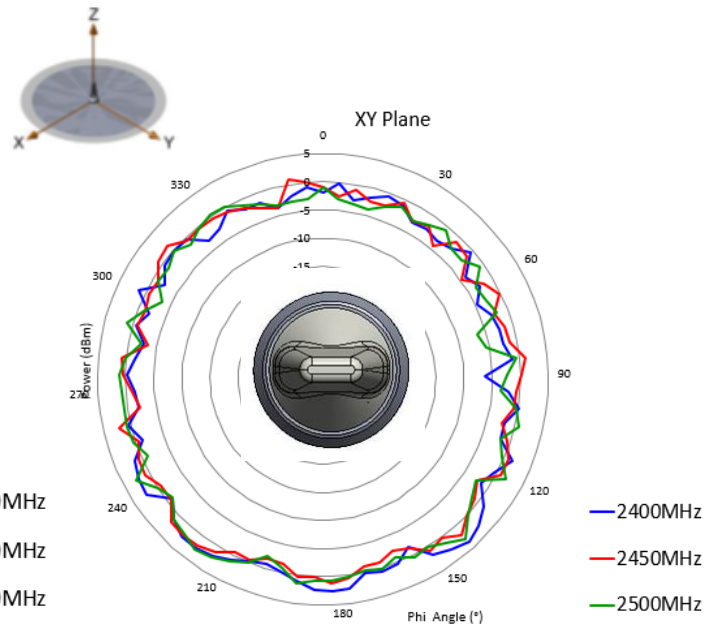
### Free Space Radiation Pattern

SLPT2400/5900DMNW SLPT2400/5900DMN

#### Elevation Plane



#### Horizontal Plane



Issue: 1640

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

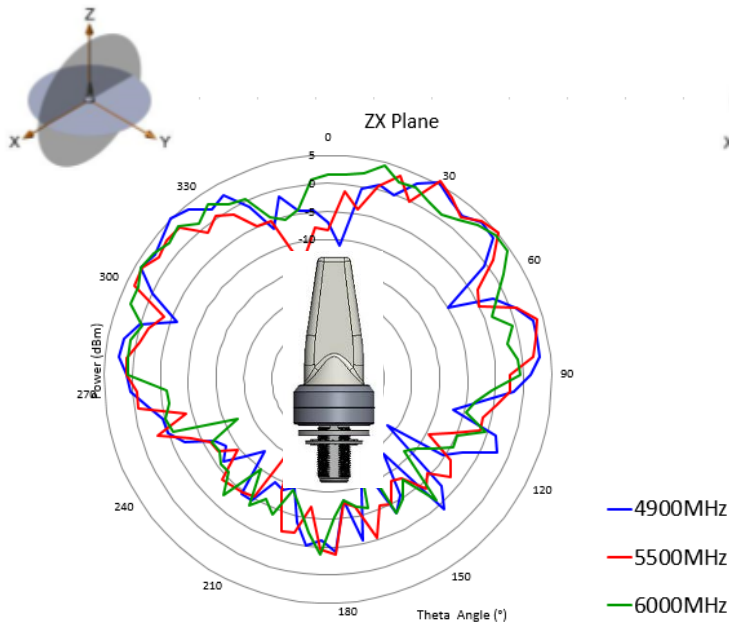
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

## CHARTS

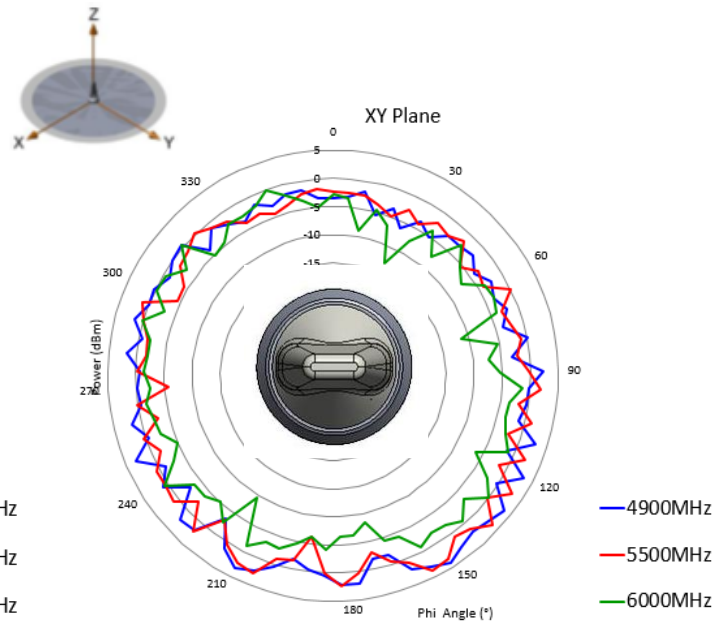
### Free Space Radiation Pattern

SLPT2400/5900DMNW SLPT2400/5900DMN

#### Elevation Plane



#### Horizontal Plane



Issue: 1640

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[SLPT698/2170DMNW](#) [SLPT2400/5900DMNW](#)