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: 1711

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Vancouver, WA 98683
USA
Tel: 1-360-944-7551

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

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:

<table>
<thead>
<tr>
<th>Project</th>
<th>Color</th>
<th>Frequency</th>
<th>Size</th>
<th>Fixing System Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLPT698/2170NMOHFW</td>
<td>White</td>
<td>698-960MHz 1710-2700MHz</td>
<td></td>
<td>NMOHFW NMO + HF Connector</td>
</tr>
<tr>
<td>SLPT698/2170NMOHF</td>
<td>Black</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT698/960NMOW</td>
<td>White</td>
<td>698-960MHz</td>
<td></td>
<td>NMO + Pogo Pin Connector</td>
</tr>
<tr>
<td>SLPT698/960NMO</td>
<td>Black</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT806NMOW</td>
<td>White</td>
<td>806-960MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT806NMO</td>
<td>Black</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT698/869DMNW</td>
<td>White</td>
<td>698-869MHz</td>
<td></td>
<td>Direct Mount N Female Connector (Screw 5/8-24 UNEF 2A)</td>
</tr>
<tr>
<td>SLPT698/869DMN</td>
<td>Black</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT806DMNW</td>
<td>White</td>
<td>806-960MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT806DMN</td>
<td>Black</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT698/2170DMNW</td>
<td>White</td>
<td>698-960MHz 1710-2700MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT698/2170DMN</td>
<td>Black</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Series: Shadow

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

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

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<tbody>
<tr>
<td>SLPT2400NMOHFW</td>
<td>White</td>
<td>2400-2500MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT2400NMOHF</td>
<td>Black</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT4900NMOHFW</td>
<td>White</td>
<td>4900-6000MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT4900NMOHF</td>
<td>Black</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT245NMOHFW</td>
<td>White</td>
<td>2400-2500MHz</td>
<td></td>
<td>NMOHF NMO + HF Connector</td>
</tr>
<tr>
<td>SLPT2400/5900NMOHFW</td>
<td>Black</td>
<td>4900-6000MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT2400DMNW</td>
<td>White</td>
<td>2400-2500MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT2400DMN</td>
<td>Black</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT4900DMNW</td>
<td>White</td>
<td>4900-6000MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT4900DMN</td>
<td>Black</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT2400/5900DMNW</td>
<td>White</td>
<td>2400-2500MHz</td>
<td></td>
<td>Direct Mount N Female Connector (Screw 5/8-24 UNEF 2A)</td>
</tr>
<tr>
<td>SLPT2400/5900DMN</td>
<td>Black</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

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.
Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

### ELECTRICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Project</th>
<th>Frequency</th>
<th>VSWR</th>
<th>Peak Gain</th>
<th>Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLPT698/2170NMOHFW</td>
<td>698-960MHz, 1710-2700MHz</td>
<td>3:1(0.698-0.96GHz)</td>
<td>3.52dBi(0.698-0.96GHz)</td>
<td>72%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2:1(1.71-2.5GHz)</td>
<td>4.95dBi(1.71-2.69GHz)</td>
<td>71%</td>
</tr>
<tr>
<td>SLPT698/2170NMOHF</td>
<td></td>
<td>2.2:1(2.5-2.7GHz)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT698/960NMOW</td>
<td>698-960MHz</td>
<td>2:1</td>
<td>3.29dBi</td>
<td>68%</td>
</tr>
<tr>
<td>SLPT698/960NMO</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT806NMOW</td>
<td>806-960MHz</td>
<td>2:1</td>
<td>3.18dBi</td>
<td>67%</td>
</tr>
<tr>
<td>SLPT806NMO</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT698/869DMNW</td>
<td>698-869MHz</td>
<td>2:1</td>
<td>3.26dBi</td>
<td>72%</td>
</tr>
<tr>
<td>SLPT698/869DMN</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT806DMNW</td>
<td>806-960MHz</td>
<td>2:1</td>
<td>3.05dBi</td>
<td>70%</td>
</tr>
<tr>
<td>SLPT806DMN</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT698/2170DMNW</td>
<td>698-960MHz, 1710-2700MHz</td>
<td>3:1(0.698-0.96GHz)</td>
<td>3.51dBi(0.698-0.96GHz)</td>
<td>76%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2:1(1.71-2.5GHz)</td>
<td>4.81dBi(1.71-2.69GHz)</td>
<td>67%</td>
</tr>
<tr>
<td>SLPT698/2170DMN</td>
<td></td>
<td>2.2:1(2.5-2.7GHz)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Description:
ON-VEHICLE LOW PROFILE ANTENNA

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

---

**Series:** Shadow

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Frequency</th>
<th>VSWR</th>
<th>Peak Gain</th>
<th>Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLPT2400NMOHFW</td>
<td>Black: SLPT2400NMOHFW</td>
<td>2400-2500MHz</td>
<td>2:1</td>
<td>5.06dBi</td>
<td>79%</td>
</tr>
<tr>
<td>SLPT2400NMOHF</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT4900NMOHFW</td>
<td>Black: SLPT4900NMOHFW</td>
<td>4900-6000MHz</td>
<td>2:1</td>
<td>5.09dBi</td>
<td>71%</td>
</tr>
<tr>
<td>SLPT4900NMOHF</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT245NMOHFW</td>
<td>Black: SLPT245NMOHFW</td>
<td>2400-2500MHz</td>
<td>2:1</td>
<td>5.06dBi</td>
<td>79%</td>
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<tr>
<td>SLPT4900NMOHFW</td>
<td></td>
<td>4900-6000MHz</td>
<td>2:1</td>
<td>5.09dBi</td>
<td>71%</td>
</tr>
<tr>
<td>SLPT2400/5900NMOHFW</td>
<td>Black: SLPT2400/5900NMOHFW</td>
<td>2400-2500MHz, 4900-6000MHz</td>
<td>2:1(2.4-2.5GHz), 2:1(4.9-6GHz)</td>
<td>5.09dBi, 5.09dBi</td>
<td>79%, 71%</td>
</tr>
<tr>
<td>SLPT2400DMNW</td>
<td></td>
<td></td>
<td></td>
<td>4.78dBi</td>
<td>75%</td>
</tr>
<tr>
<td>SLPT2400DMN</td>
<td></td>
<td></td>
<td>2:1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT4900DMNW</td>
<td></td>
<td></td>
<td></td>
<td>5.14dBi</td>
<td>73%</td>
</tr>
<tr>
<td>SLPT4900DMN</td>
<td></td>
<td></td>
<td>2:1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLPT2400/5900DMNW</td>
<td>Black: SLPT2400/5900DMNW</td>
<td>2400-2500MHz, 4900-6000MHz</td>
<td>2:1(2.4-2.5GHz), 2:1(4.9-6GHz)</td>
<td>4.78dBi, 5.14dBi</td>
<td>79%, 73%</td>
</tr>
</tbody>
</table>

- **Nominal Impedance:** 50Ω
- **Radiation Pattern:** omni
- **Polarization:** Vertical
- **Power with standing:** 10W
Description: ON-VEHICLE LOW PROFILE ANTENNA

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

<table>
<thead>
<tr>
<th>MECHANICAL SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic radome</td>
</tr>
<tr>
<td>Color</td>
</tr>
<tr>
<td>Ingress Protection</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ENVIRONMENTAL SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature</td>
</tr>
</tbody>
</table>
Description: ON-VEHICLE LOW PROFILE ANTENNA

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

Series: Shadow

CHARTS

VSWR

![VSWR Chart](image)

![VSWR Chart](image)
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

VSWR

![VSWR Chart 1](image1)

![VSWR Chart 2](image2)
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

VSWR

For the SLPT806DMN series, the VSWR chart shows the actual and specified values across different frequencies. The chart indicates that the VSWR remains under the specified limits across the entire frequency range.

For the SLPT698/2170DMN series, the VSWR chart also shows the actual and specified values. The chart indicates that the VSWR is within the specified limits for most frequencies, with a slight deviation at certain points.

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Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

VSWR

SLPT2400NMOHF

Actual\n\nspec

SLPT2400NMOHFW

VSWR

Frequency(MHz)

4560 4620 4680 4740 4800 4860 4920 4980 5040 5100 5160 5220 5280 5340 5400 5460 5520 5580 5640 5700 5760 5820 5880 5940 6000

SLPT4900NMOHFW

Actual\n\nspec

SLPT4900NMOHF

VSWR

Frequency(MHz)

4560 4620 4680 4740 4800 4860 4920 4980 5040 5100 5160 5220 5280 5340 5400 5460 5520 5580 5640 5700 5760 5820 5880 5940 6000

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Description: ON-VEHICLE LOW PROFILE ANTENNA

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

VSWR

SLPT245NMOHFW  SLPT2400/5900NMOHF
VSWR

SLPT2400DMNW  SLPT2400DMN
VSWR
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

VSWR

SLPT4900DMNW  SLPT4900DMN
VSWR

Actual  spec

SLPT2400/5900DMNW  SLPT2400/5900DMN
VSWR

Actual  spec
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXW

CHARTS

Efficiency (%)

SLPT698/2170NMOHF / SLPT698/2170NMOHF

Efficiency (%)

SLPT698/960NMO / SLPT698/960NMO

Efficiency (%)

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Description: ON-VEHICLE LOW PROFILE ANTENNA

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

Series: Shadow

CHARTS

Efficiency (%)

SLPT806NMOW  SLPT806NMO

Efficiency (%)

SLPT698/869DMNW  SLPT698/869DMN

Efficiency (%)

Issue: 1711

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Description: ON-VEHICLE LOW PROFILE ANTENNA

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Efficiency(%)
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Efficiency(%)
Description: ON-VEHICLE LOW PROFILE ANTENNA

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

Series: Shadow

CHARTS

Efficiency (%)
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Efficiency (%)
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Peak Gain (dBi)

SLPT698/2170NMOHFW  SLPT698/2170NMOHF
Peak Gain (dBi)

SLPT698/960NMOW  SLPT698/960NMO
Peak Gain (dBi)
Description: ON-VEHICLE LOW PROFILE ANTENNA

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

Series: Shadow

CHARTS

Peak Gain (dBi)

SLPT806NMOW  SLPT806NMO
Peak Gain (dBi)

SLPT698/869DMNW  SLPT698/869DMN
Peak Gain (dBi)
Description: ON-VEHICLE LOW PROFILE ANTENNA

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

Series: Shadow

CHARTS

Peak Gain (dBi)

SLPT806DMNW    SLPT806DMN
Peak Gain (dBi)

SLPT698/2170DMNW    SLPT698/2170DMN
Peak Gain (dBi)
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Peak Gain (dBi)

SLPT2400NMOHFW   SLPT2400NMOHF
Peak Gain (dBi)

SLPT4900NMOHFW   SLPT4900NMOHF
Peak Gain (dBi)
**Description:** ON-VEHICLE LOW PROFILE ANTENNA

**Series:** Shadow

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

---

**CHARTS**

### Peak Gain (dBi)

**SLPT245NMOHFW**

**SLPT2400/5900NMOHF**

**Peak Gain (dBi)**

---

**SLPT2400DMNW**

**SLPT2400DMN**

**Peak Gain (dBi)**
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Peak Gain (dBi)

SLPT4900DMNW    SLPT4900DMN
Peak Gain (dBi)

SLPT2400/5900DMNW    SLPT2400/5900DMN
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
Series: Shadow

Description: ON-VEHICLE LOW PROFILE ANTENNA

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Free Space Radiation Pattern

SLPT698/2170NMOHFW  SLPT698/2170NMOHF

Elevation Plane  Horizontal Plane
Description: ON-VEHICLE LOW PROFILE ANTENNA

PART NUMBER: Black: SLPTXXX / White: SLPTXXW

Series: Shadow

CHARTS

Free Space Radiation Pattern

SLPT698/960NMOW    SLPT698/960NMO

Elevation Plane        Horizontal Plane
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
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
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
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
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
Description: ON-VEHICLE LOW PROFILE ANTENNA

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

Series: Shadow

CHARTS

Free Space Radiation Pattern

SLPT4900NMOHFW  SLPT4900NMOHF

Elevation Plane  Horizontal Plane
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

In the effort to improve our products, we reserve the right to make changes judged to be necessary.
Description: ON-VEHICLE LOW PROFILE ANTENNA

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

Series: Shadow

CHARTS

Free Space Radiation Pattern

SLPT245NMOHFW    SLPT2400/5900NMOHF

Elevation Plane

Horizontal Plane

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Description: ON-VEHICLE LOW PROFILE ANTENNA

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Free Space Radiation Pattern

SLPT2400DMNW   SLPT2400DMN

Elevation Plane

Horizontal Plane
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

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

Series: Shadow

CHARTS

Free Space Radiation Pattern

SLPT2400/5900DMNW  SLPT2400/5900DMN

Elevation Plane  Horizontal Plane

Issue: 1711

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Description: ON-VEHICLE LOW PROFILE ANTENNA

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Free Space Radiation Pattern

SLPT2400/5900DMNW   SLPT2400/5900DMN

Elevation Plane

Horizontal Plane

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