







# Outdoor Low profile direct mount Antenna

SKF450DM – 440-470 MHz



## Features & Applications:

-  Vehicle roof mount, directly on metal plane
-  440-470MHz
-  Cable length and connector type per request
-  Available in Black (P/N SKF450DM) or White (P/N SKF450DMW)
-  Heavy and light vehicles
-  IoT, navigation, tracking

### Electrical specifications @ 25° C

#### Frequency Band – 440-470 MHz

| Antenna type <sup>1</sup> | Nominal Impedance | Polarization | Radiation pattern | Power withstanding | DC Ground |
|---------------------------|-------------------|--------------|-------------------|--------------------|-----------|
| Dipole                    | 50Ω               | Vertical     | Omni              | 100W               | Yes       |

|                          |         |
|--------------------------|---------|
| Frequency (MHz)          | 440-470 |
| VSWR W/17FT (5.2M) Cable | 2:1     |
| Peak Gain (dBi)          | 2.2     |
| Efficiency (%)           | 75      |
| HPBW Vertical Plane (°)  | 62      |

### Mechanical Specifications

| SKF450DM                                       |                       |                     |                        |                            |
|--|-----------------------|---------------------|------------------------|----------------------------|
| Size W/H/L                                     | Color                 | Weight              | Cable / Connector Type | Fixing System <sup>2</sup> |
| 52.5 (2.07") x 63.6 (2.50") x 178.3 (7.02") mm | Black                 | 375grms (0.83lbs)   | RG-58 / SMA-Male       | Direct Mount               |
| Housing Material                               | Operating Temperature | Storage Temperature | Ingress Protection     | RoHS-6 Compliant           |
| UV Protected Plastic                           | -40°C to +85°C        | -40°C to +85°C      | IP67                   | Yes                        |

#### Notes:

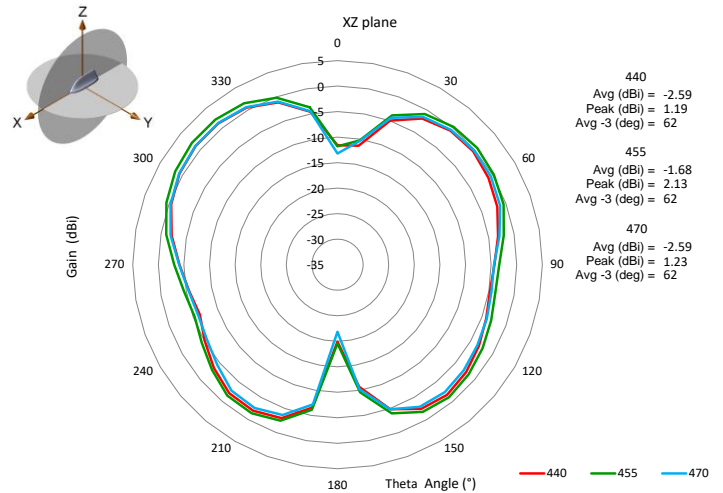
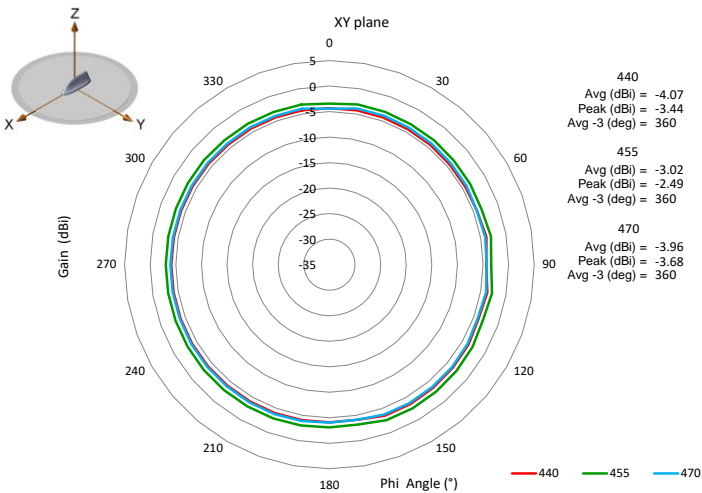
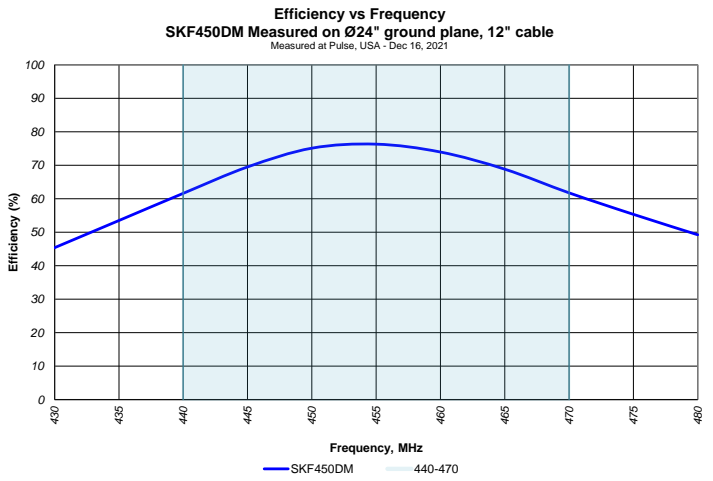
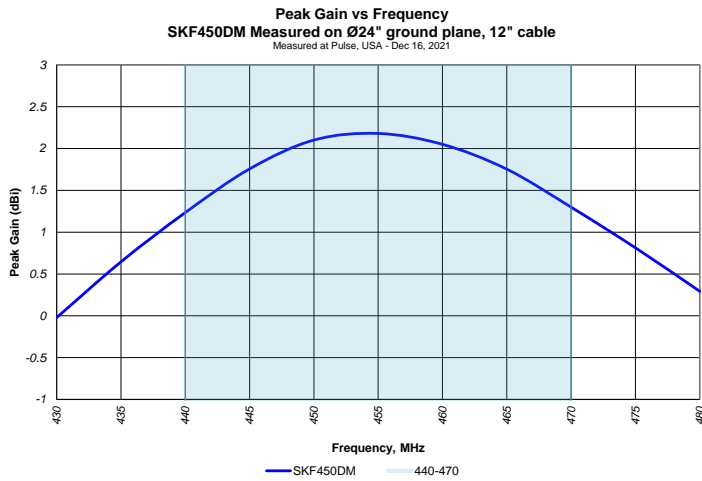
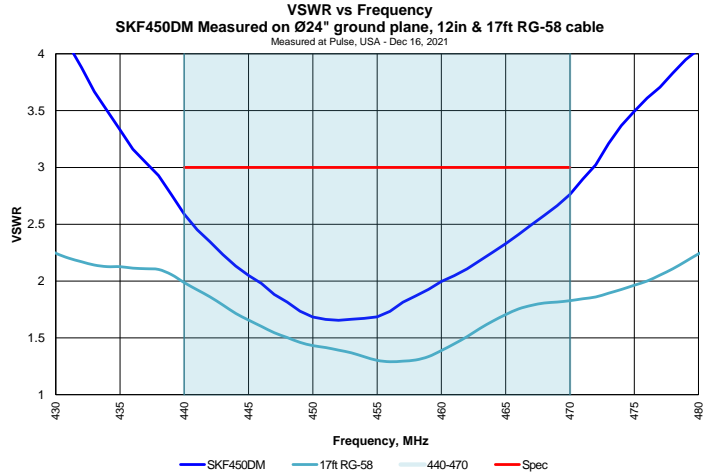
1. Measured on Ø24" (609.6mm) ground plane.
2. Requires Ø.875" (22.3mm) hole.

Test Setup / Charts

SKF450DM

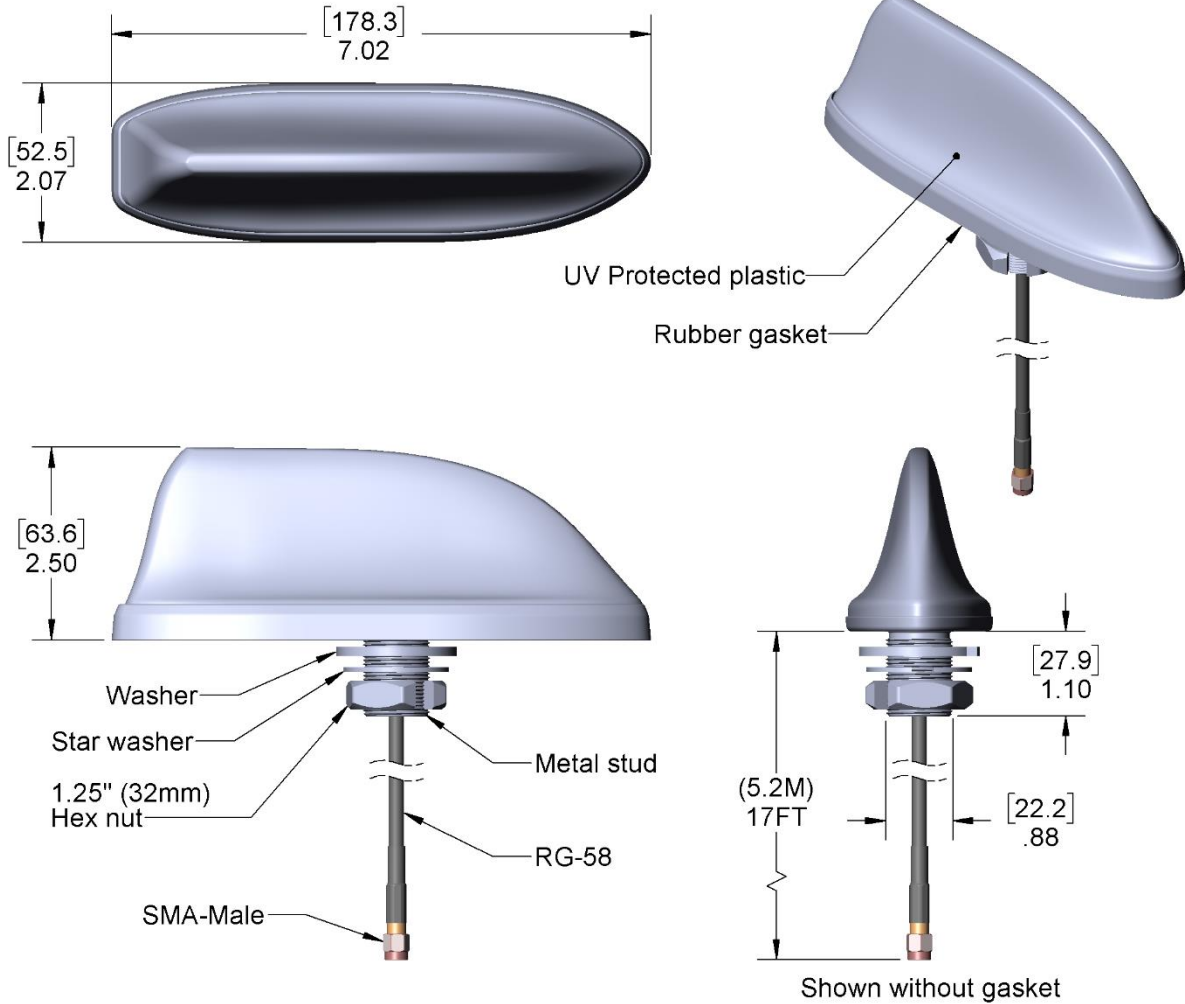


antenna sample measured on  $\varnothing 24''$  (609.6mm) ground plane



Mechanical Drawing

SKF450DM



**Dimensions:** Inches (mm)  
 Unless otherwise specified, all tolerances are ±.010 (0.25mm)

Packaging

SKF450DM

**Packaging info:**

- 1 antenna packed in a plastic bag.
- 1 label on each plastic bag with part number, description, date code.

**Notes:**

- Please contact sales for availability, lead time, and/or any special requests. Samples available upon request.

**For More Information:**

Americas - [antennas.us@pulseelectronics.com](mailto:antennas.us@pulseelectronics.com) | Europe – [antennas.eu@pulseelectronics.com](mailto:antennas.eu@pulseelectronics.com) | Asia – [antennas.as@pulseelectronics.com](mailto:antennas.as@pulseelectronics.com) | Questions? +1-800-ANTENNA  
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