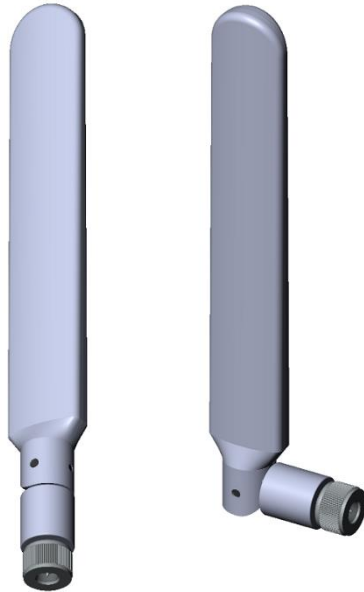













External
Blade – Omni directional Antenna
W1855 – 868-928 MHz



Features & Applications:

-  868-928 MHz
-  Peak gain 1dBi
-  Optimized for straight and 90deg bent positions
-  IP65
-  Total length (straight) 7.47" (189.8mm)
-  Width .94" (23.8mm)
-  Color, Gray with Black dot
-  Connector, SMA male
-  Utility boxes
-  Smart metering
-  IoT Devices

Electrical specifications @ 25° C¹

Frequency Band – 868-928 MHz					
Antenna type	Nominal Impedance	Polarization	Radiation pattern	Power withstanding	DC Ground
Dipole	50Ω	Vertical	Omni	20W	No

Frequency (MHz)	868-928
VSWR	2:1
Average Peak Gain (dBi)	0.9
Average Efficiency (%)	80
HPBW Vertical Plane (°)	88

Mechanical Specifications

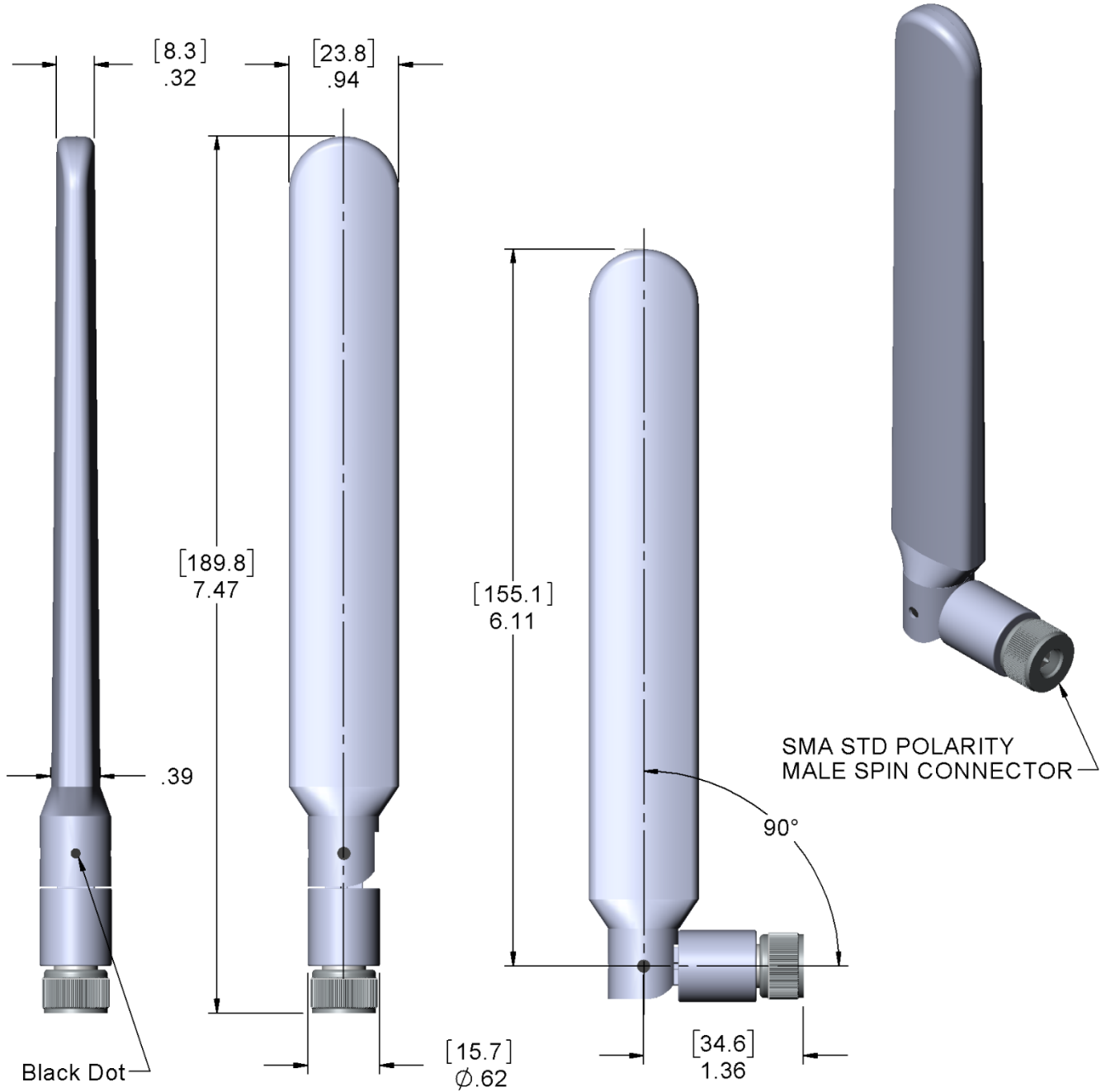
W1855				
Size (Width x Height)	Color	Weight	Connector Type	Positions
.94" (23.8mm) x 7.47" (189.8mm)	Gray	0.09 lbs (41grms)	SMA-Male	0°, 45° & 90°
Housing Material	Operating Temperature	Storage Temperature	Ingress Protection	RoHS-6 Compliant
PC/ABS, UV Protected	-40°C to +85°C	-40°C to +85°C	IP65	Yes

Notes:

1. Measured in free space.

Mechanical Drawing

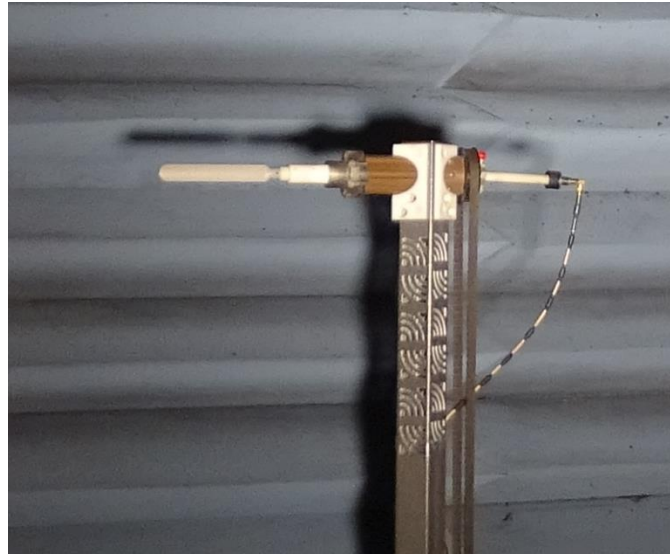
W1855



Dimensions: Inches (mm)
Unless otherwise specified, all tolerances are $\pm .010$ (0.25mm)

Test Setup

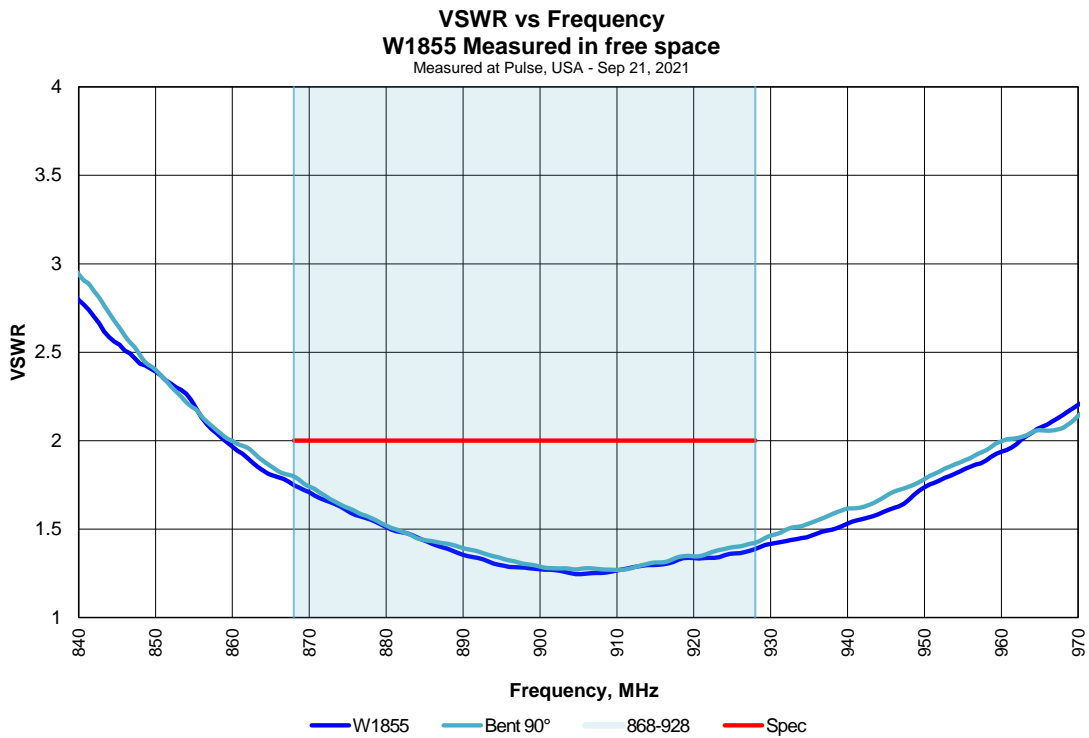
W1855



W1855 antenna sample measured in free space, in straight position

Charts- VSWR

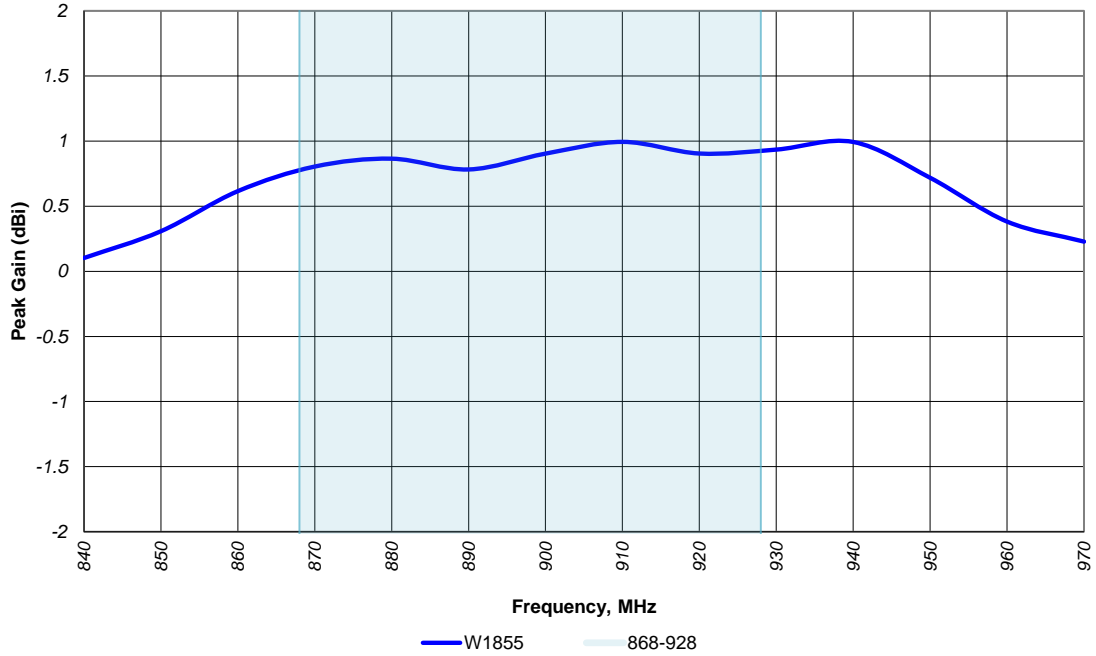
W1855



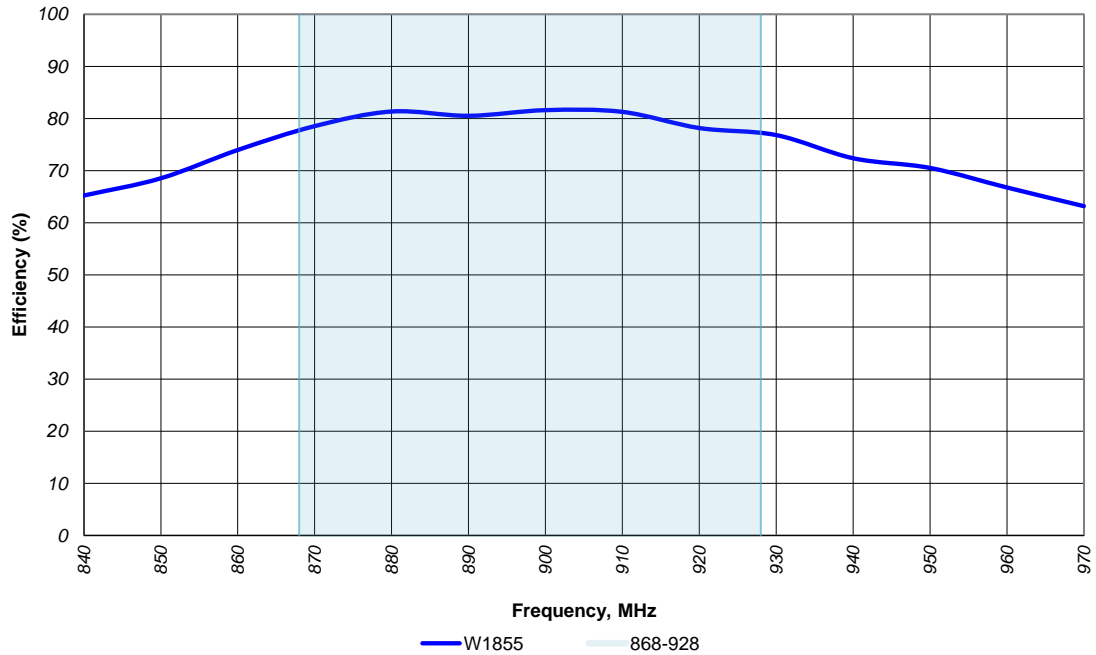
Charts- Peak Gain and Efficiency

W1855

Peak Gain vs Frequency
W1855 Measured in free space
Measured at Pulse, USA - Sep 21, 2021

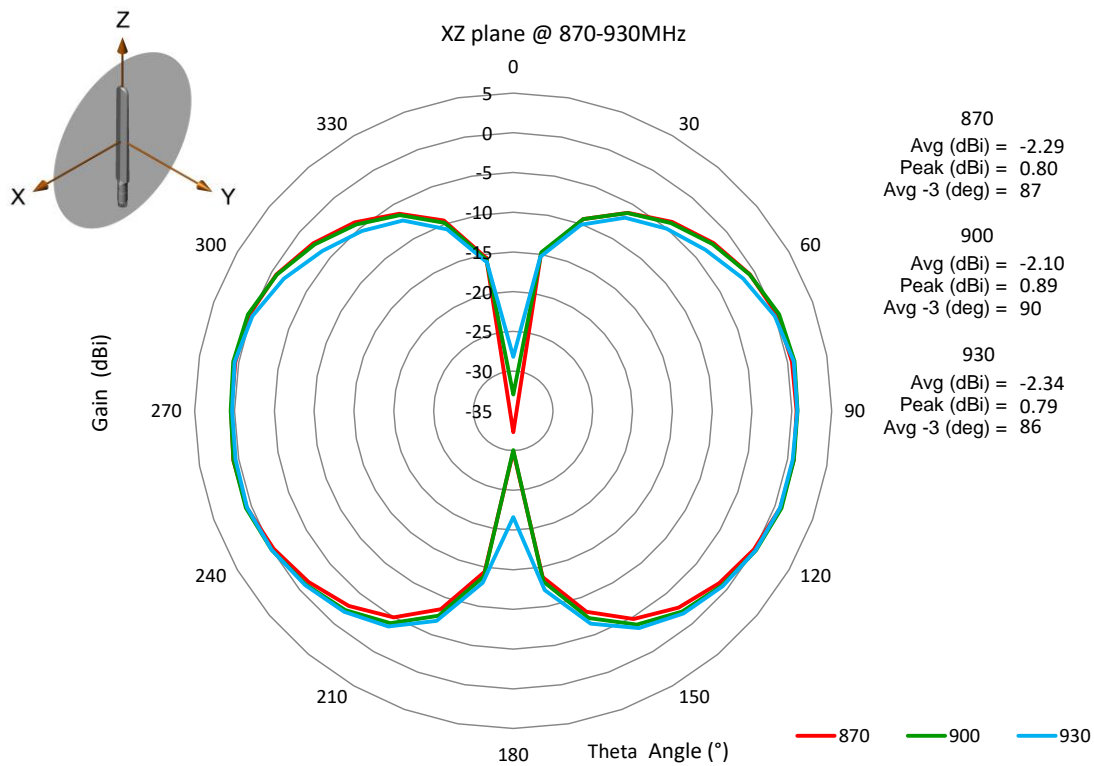
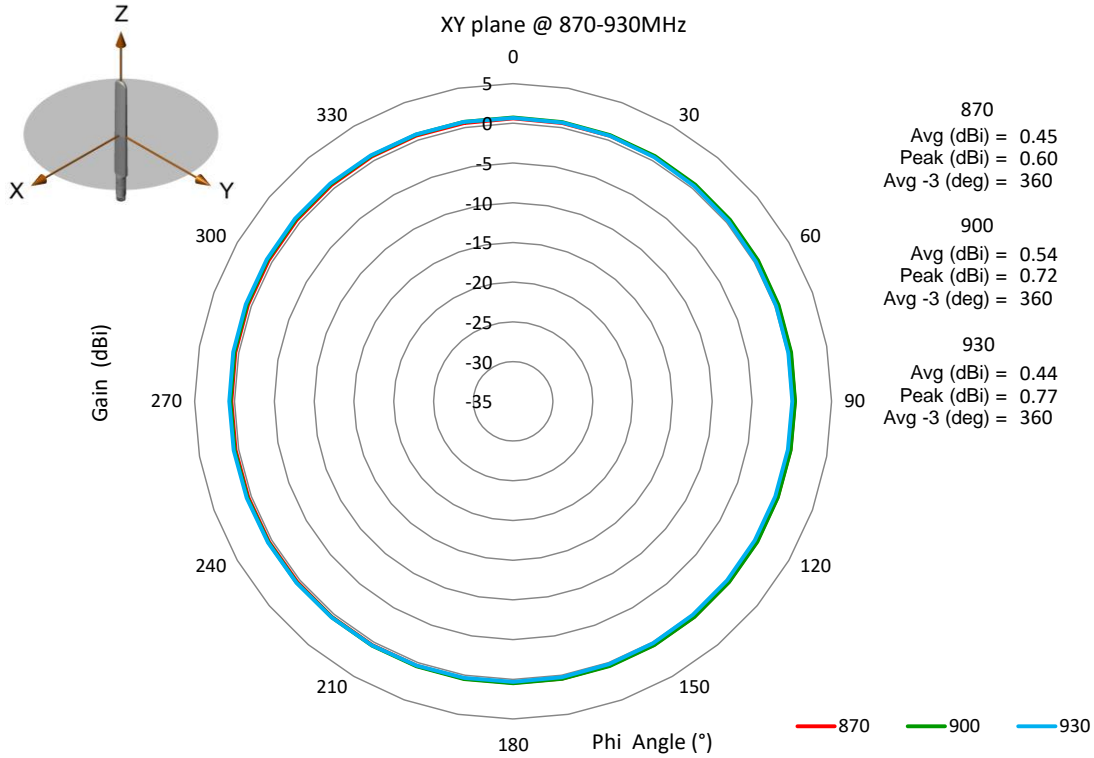


Efficiency vs Frequency
W1855 Measured in free space
Measured at Pulse, USA - Sep 21, 2021



Charts- XY and XZ Gain Plots

W1855



Packaging

W1855

Packaging info:

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

Notes:

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

For More Information:

Americas - antennas.us@pulseelectronics.com | Europe – antennas.eu@pulseelectronics.com | Asia – antennas.as@pulseelectronics.com | Questions? +1-800-ANTENNA
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