

Series: IceBlade

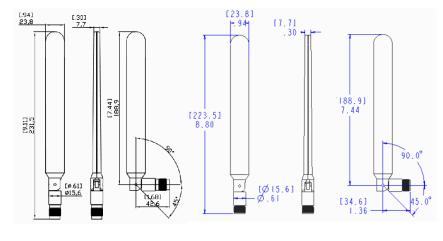
TECHNICAL DATA SHEET

Description: WiFi 2.4/5Ghz/DSRC Antenna

PART NUMBER: ICEBLADEWX

Features:

- Multi Band Swivel Mount Dipole
- Transparent antenna
- ICEBLADEWT: TNC Male Connector
- ICEBLADEWS: SMA Male Connector



Applications:

- 2.4GHz/6GHz radios
- · WiFi Routers, Access points
- Zigbee, BLE, BT
- Metering, Security, IoT, M2M Applications
- DSRC

All dimensions are in mm / inches

Issue: 1816

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Pulse Worldwide Headquarters 12220 World Trade Drive San Diego, CA 92128 USA Tel:1-858-674-8100 Pulse/Larsen Antennas 18110 SE 34th St Bldg 2 Suite 250 Vancouver, WA 98683 USA Tel: 1-360-944-7551 Europe Headquarters Pulse GmbH & Do, KG Zeppelinstrasse 15 Herrenberg, Germany Tel: 49 7032 7806 0 Pulse (Suzhou) Wireless Products Co, Inc. 99 Huo Ju Road(#29 Bldg,4th Phase Suzhou New District Jiangsu Province, Suzhou 215009 PR China Tel: 86 512 6807 9998



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

ICEBLADEWT: TNC Connector

ICEBLADEWS: SMA Connector



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ELECTRICAL SPECIFICATIONS

P/N	Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	VSWR	Power Standing
ICEBLADEWT	2400-2500	4.2+/-1dB	55	2.3:1	5W
	4900-6000	5.3+/-1dB	80	2.3:1	
ICEBLADEWS	2400-2500	4.2+/-1dB	55	2:1	5W
	4900-6000	5.3+/-1dB	80	2:1	

Typical performance measured in free space

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MECHANICAL SPECIFICATIONS					
Plastic radome	PC945A				
Color	Clarity				
Flammability(Radome)	UL94 V-0				
Weight	45.4g				
Positions	0°, 45° & 90°				
Overall length	8.8 INCHES				
Fixing system	°±2°				
Azimuth adjustment	° ± 4°				
Elevation adjustment	° ± 4°				



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ENVIRONMENTAL SPECIFICATIONS

Operating temperature -30/+70° C

Temperature

Stationary -40/+85° C

Cyclic Rate 5°C/min, 16 hours

Humidity

Stationary 95%@ 25° C

Cyclic 12 hours

Salt mist 96 hours



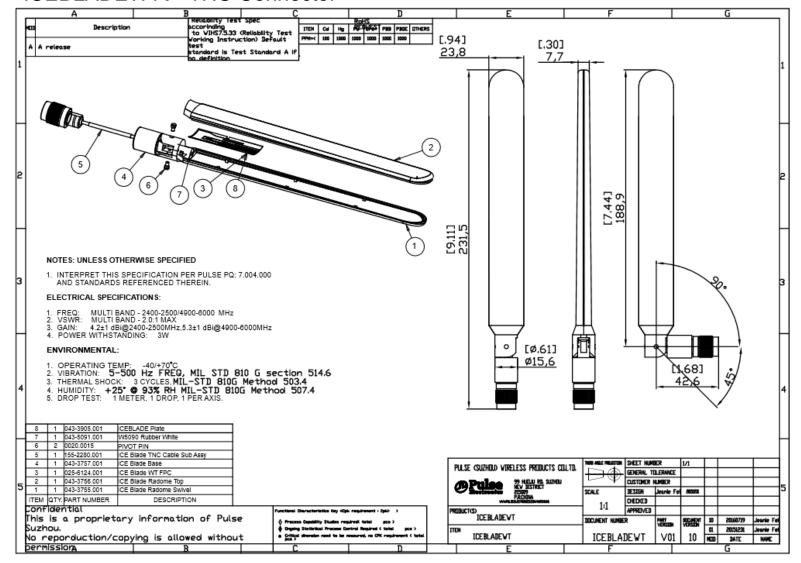


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MECHANICAL DRAWING

ICEBLADEWT: TNC Connector





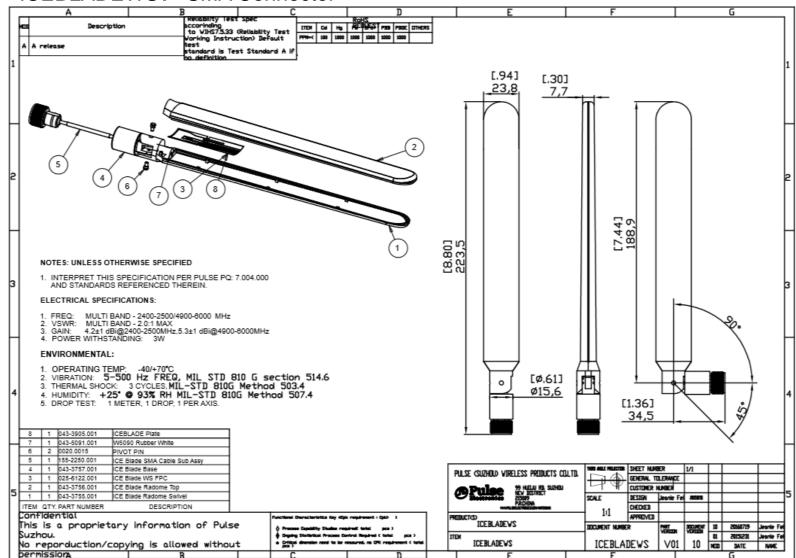


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MECHANICAL DRAWING

ICEBLADEWS: SMA Connector





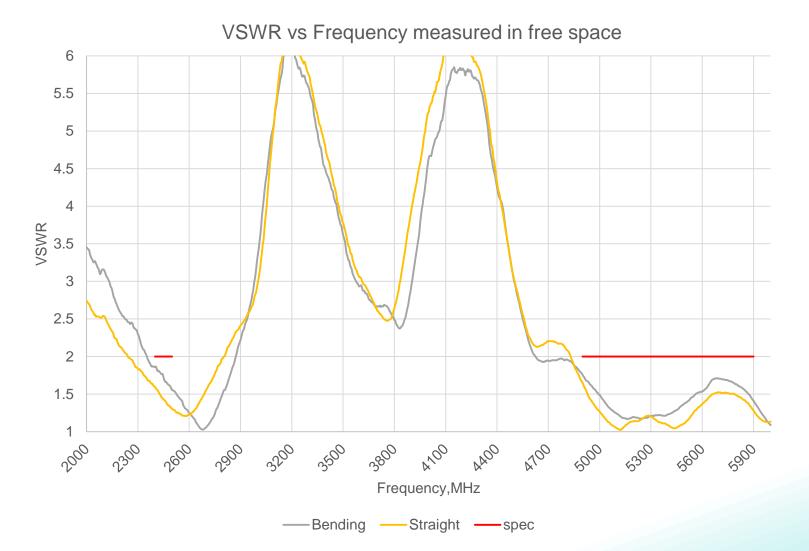
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OTHER SPECIFICATIONS

VSWR



Note: Performance of ICEBLADEWS tested in free space

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ROHS



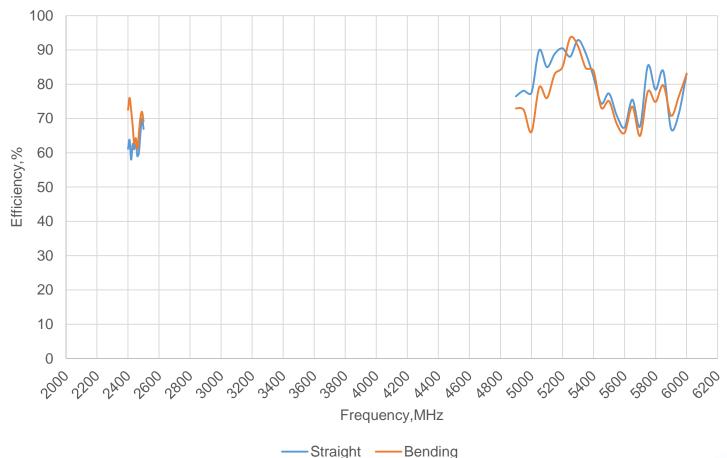
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CHARTS

Efficiency

Efficiency vs Frequency measured in free space



Straight ——Bending

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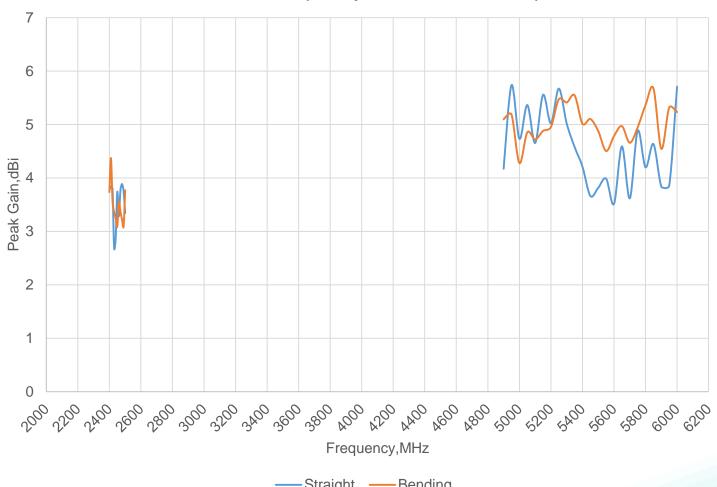
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CHARTS

Peak Gain

Peak Gain vs Frequency measured in free space



Straight —Bending

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CHARTS XY Plane 30 330 2400MHz Avg (dBi) = -4.07Peak (dBi) = -2.05Avg - 3 (deg) = 28560 300 -20 2450MHz -25 Avg (dBi) = -3.89Peak (dBi) = -1.39 -30 Power (dBm) Avg - 3 (deg) = 26535 90 2480MHz -40 270 Avg (dBi) = -3.32Peak (dBi) = -1.32Avg - 3 (deg) = 265120 240 150 210 180 2400MHz 2450MHz

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2500MHz

ROHS COMPLIAN

Phi Angle

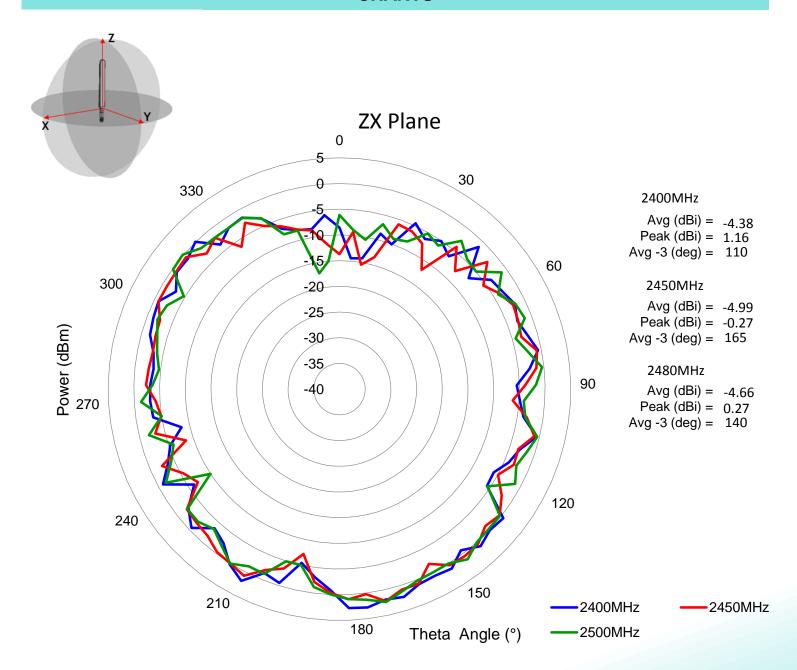




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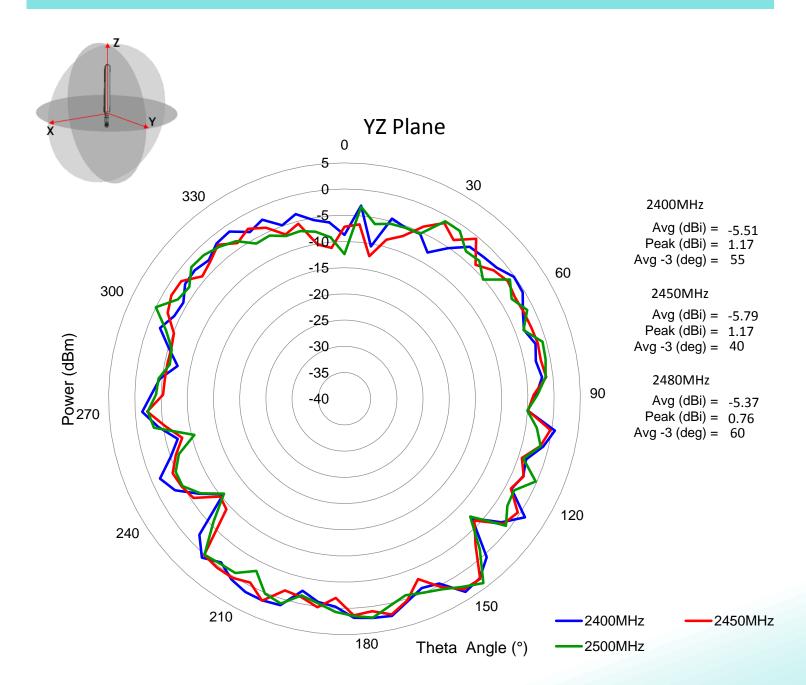




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ROHS

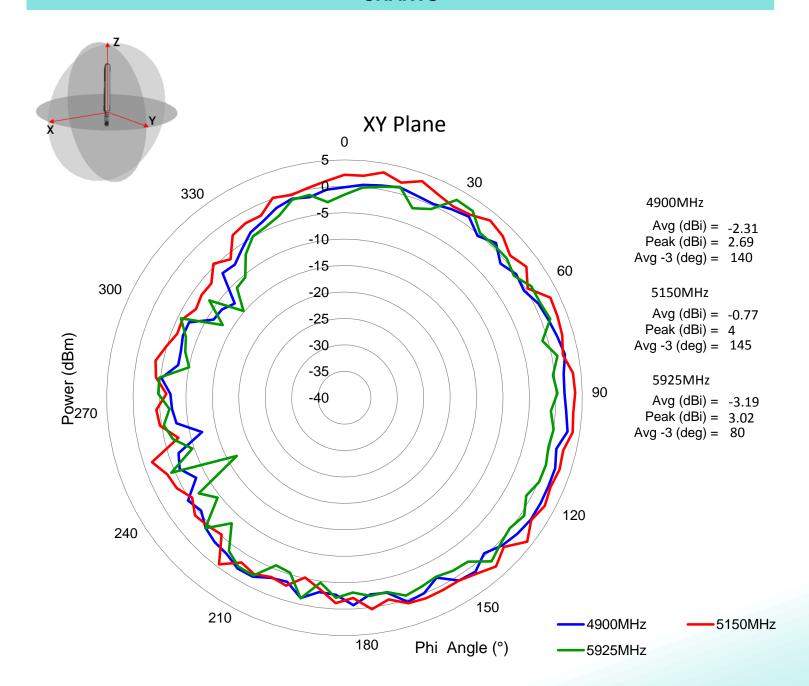




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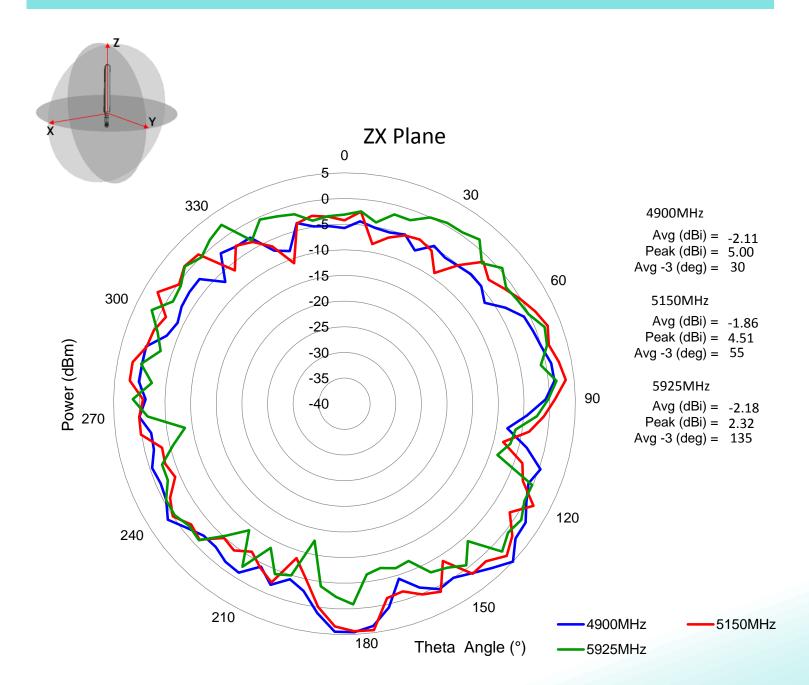




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ROHS

15

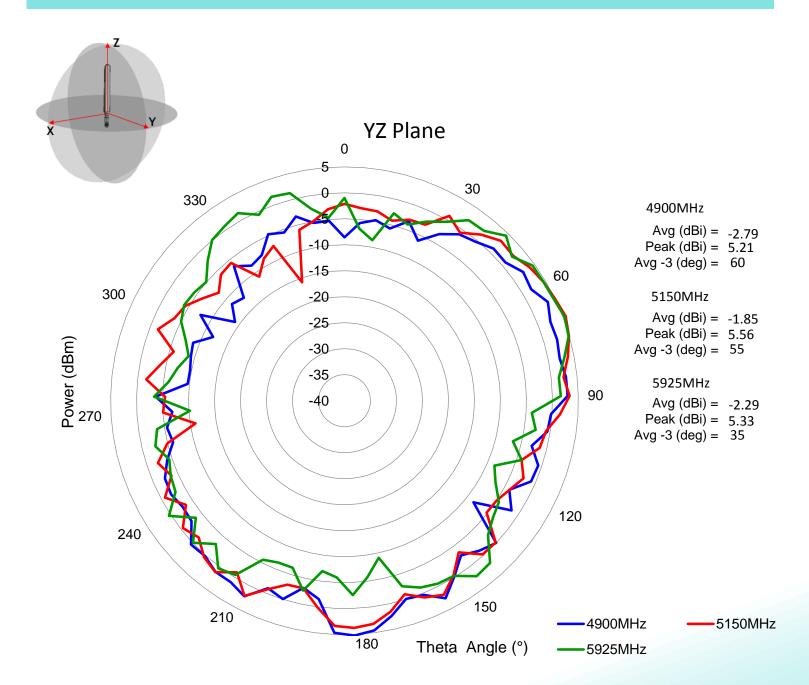




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PACKAGING

Pack 10 antennae in one box, each antenna has a PE bag with one label.