

Description: RO, 10 dBi, 5.725-5.925 GHz, NF

Series: Radome Omni

PART NUMBER: RO5810NF



Features:

- Omnidirectional radiation pattern in H-plane
- 10/9 dBi Gain
- Stable gain and pattern across the operating band
- IP67
- N-Female connector

Applications:

- 5 GHz ISM band
- DSRC
- WiFi 5.x GHz
- Indoor/Outdoor use

Issue: 1632

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

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Description: RO, 10 dBi, 5.725-5.925 GHz, NF**Series:** Radome Omni**PART NUMBER:** RO5810NF**ELECTRICAL SPECIFICATIONS**

Antenna Type	Collinear dipole array
Frequency	5.725-5.925 GHz
Nominal Impedance	50 Ω
VSWR	2:1
Radiation Pattern	Omni
HPBW / Vertical Plane	8.5 ° $\pm$ 0.5 °
Gain (5.725-5.875 GHz)	10 dBi +/- 1 dB
Gain (5.875-5.925 GHz)	9 dBi +/- 1 dB
Efficiency	70 %
Polarization	Vertical
Power Withstanding	20 W
E.S.D. Protection	DC Grounded

MECHANICAL SPECIFICATIONS

Overall Length	434 mm
Weight	167.3 g
Antenna Color / Material	White / Pultruded Fiberglass, UV-Protected
Connector type	N-Female

ENVIRONMENTAL SPECIFICATIONS

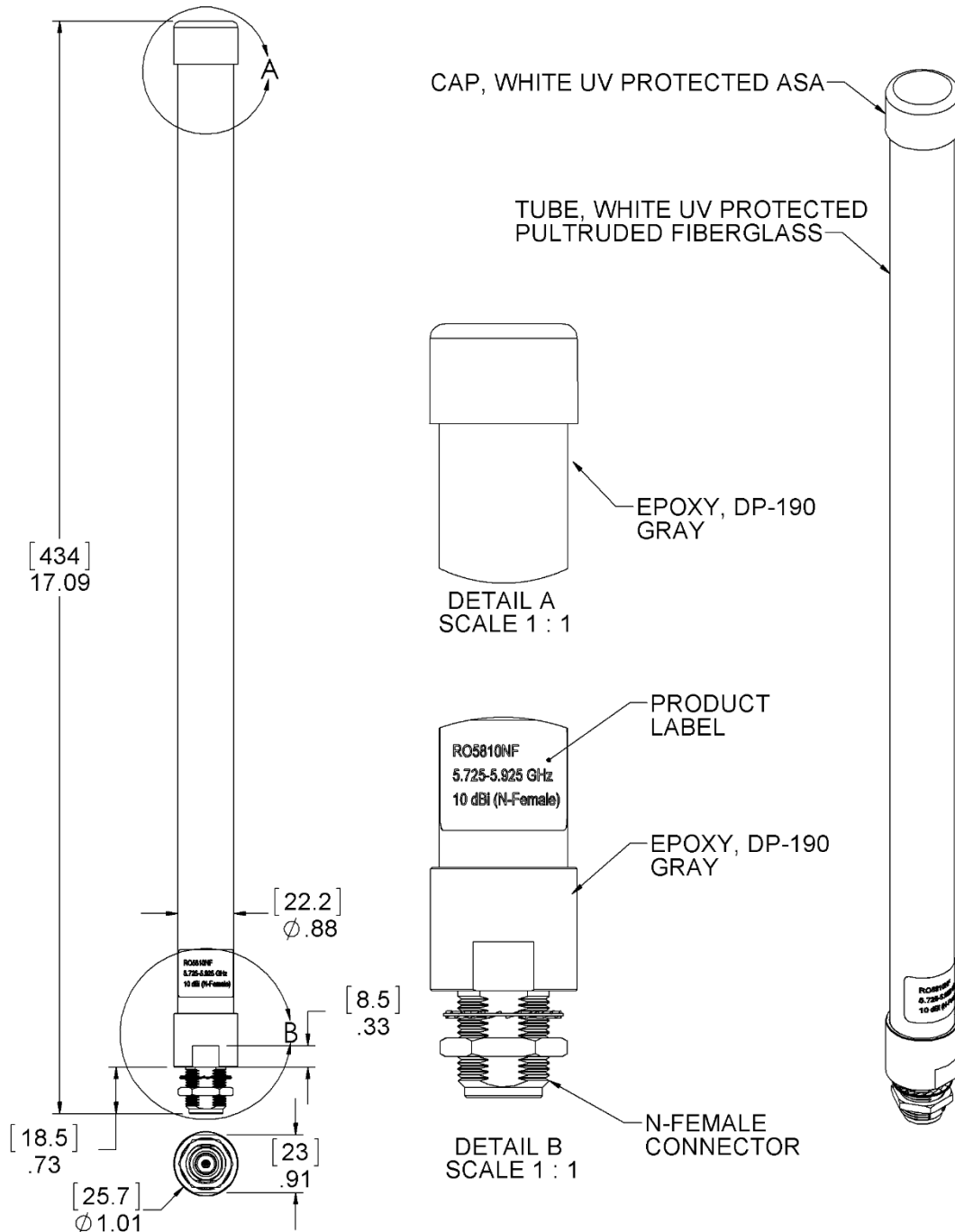
Operating Temperature	-30° to +60° C
Ingress Protection	IP67
Wind-loading	241.4 km/h
RoHS Compliant	Yes

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MECHANICAL DRAWING



All dimensions are in mm / inches

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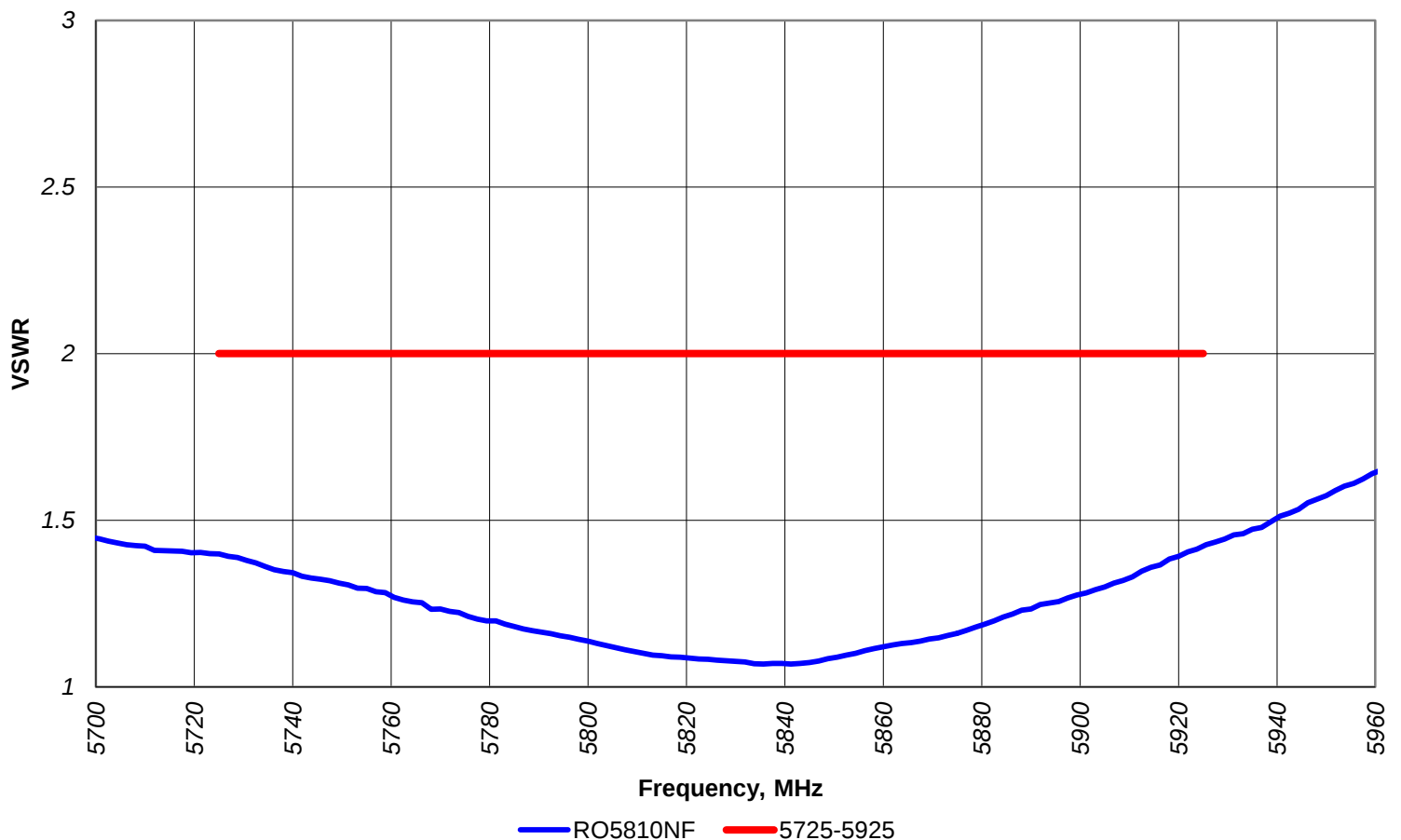
Series: Radome Omni

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CHARTS

VSWR vs Frequency RO5810NF

Measured at Pulse, USA - Aug 16, 2016



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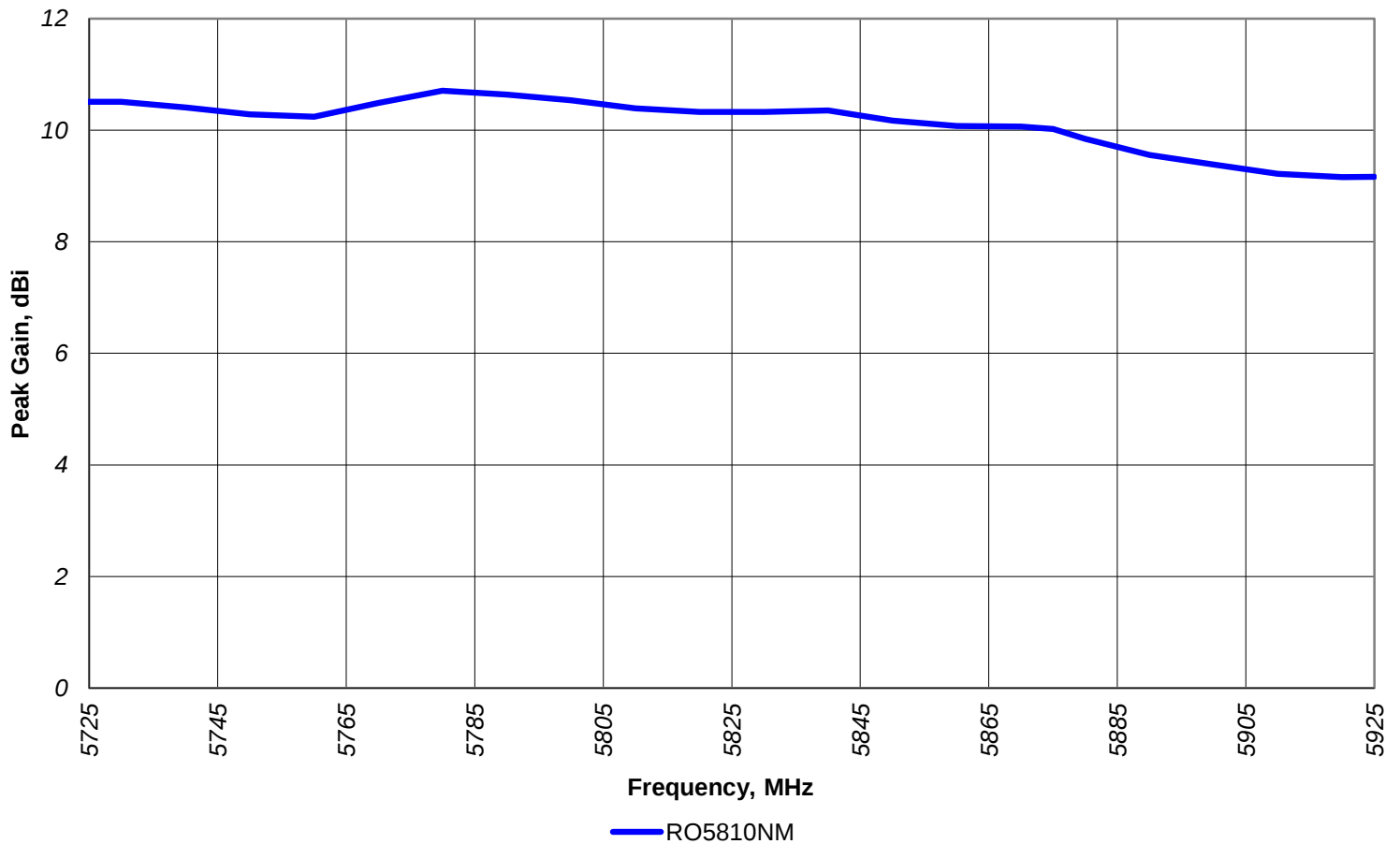
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CHARTS

Peak Gain vs Frequency
RO5810NF

Measured at Pulse, USA - Aug. 16, 2016



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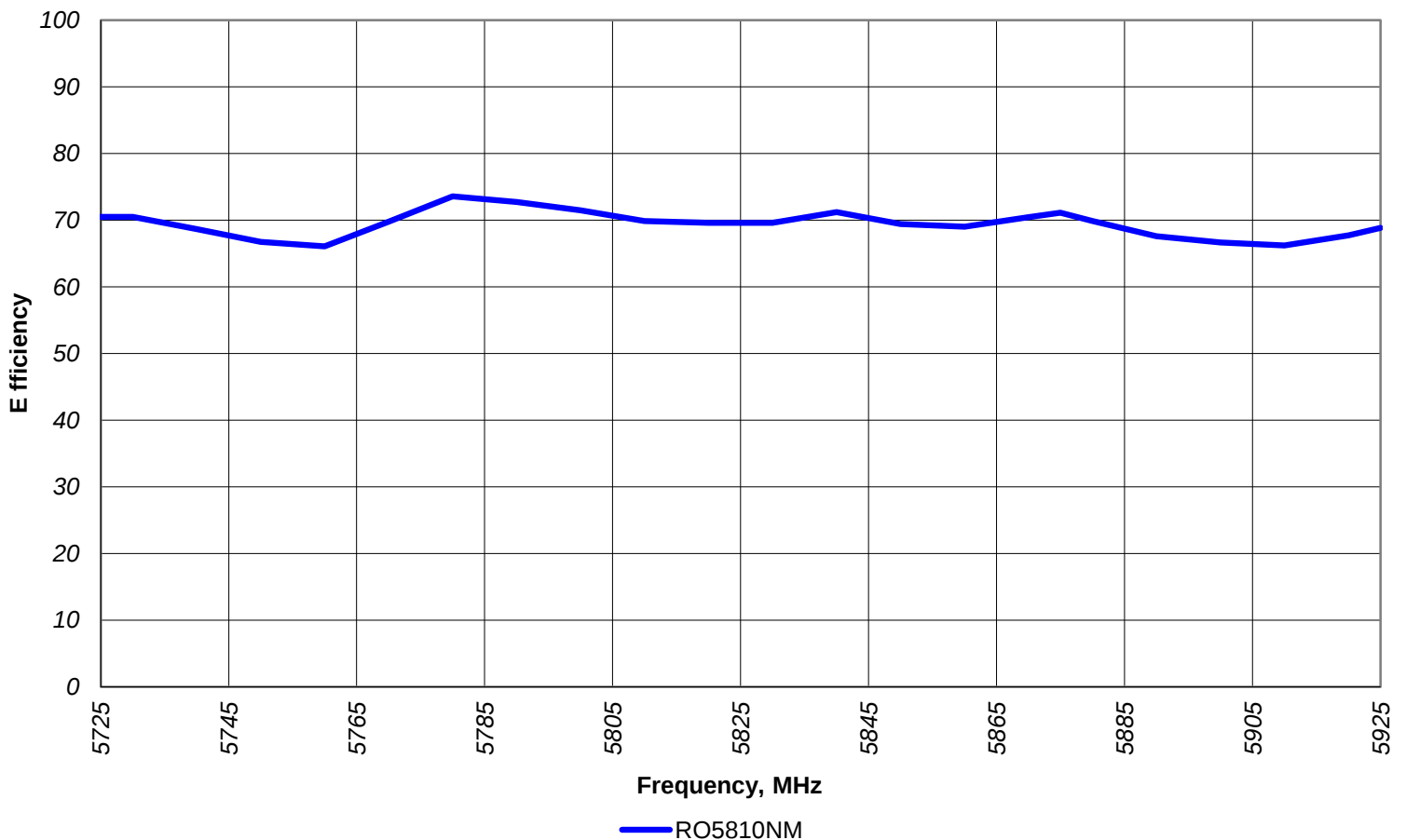
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CHARTS

Efficiency vs Frequency
RO5810NF

Measured at Pulse, USA - Aug. 16, 2016



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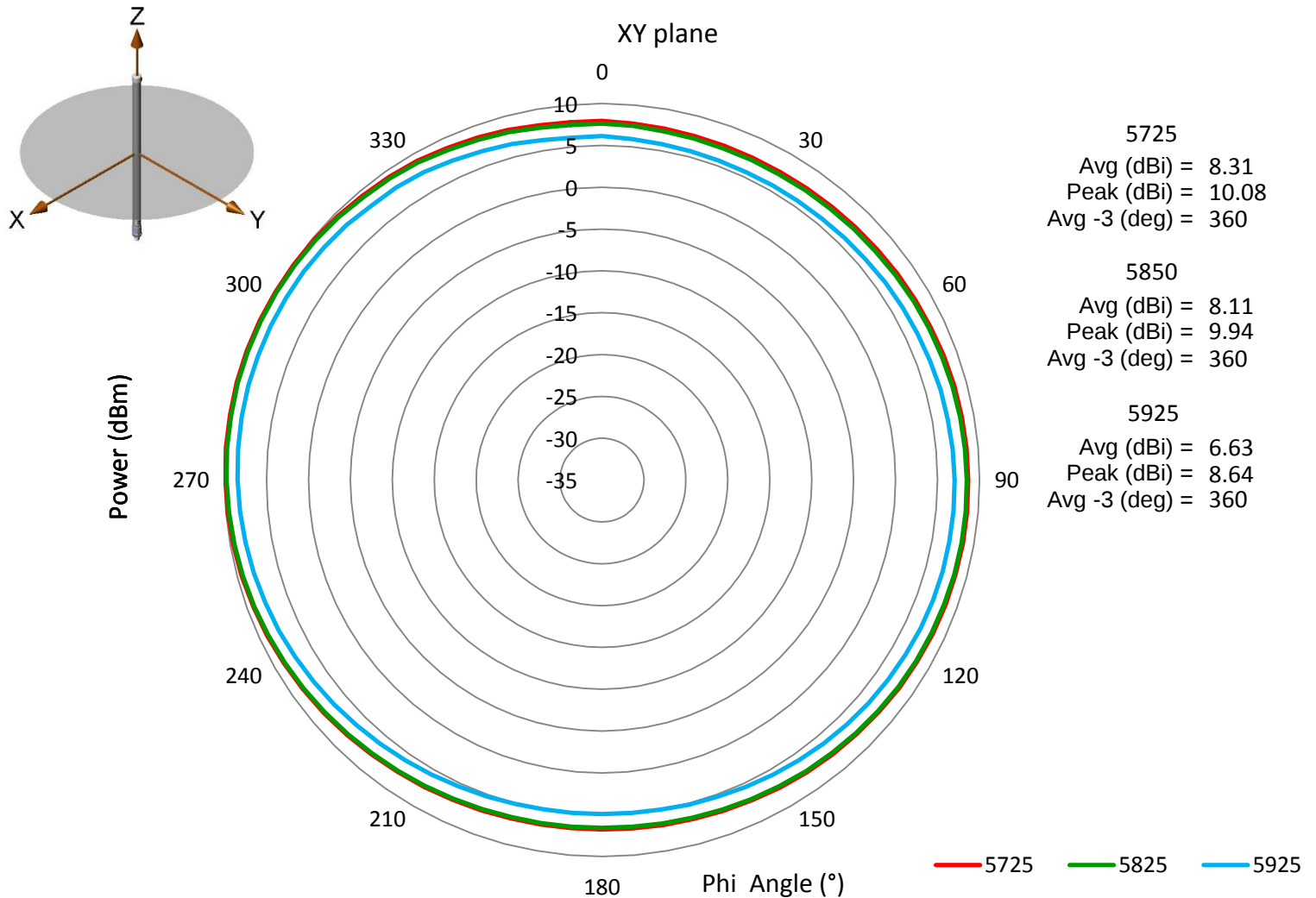
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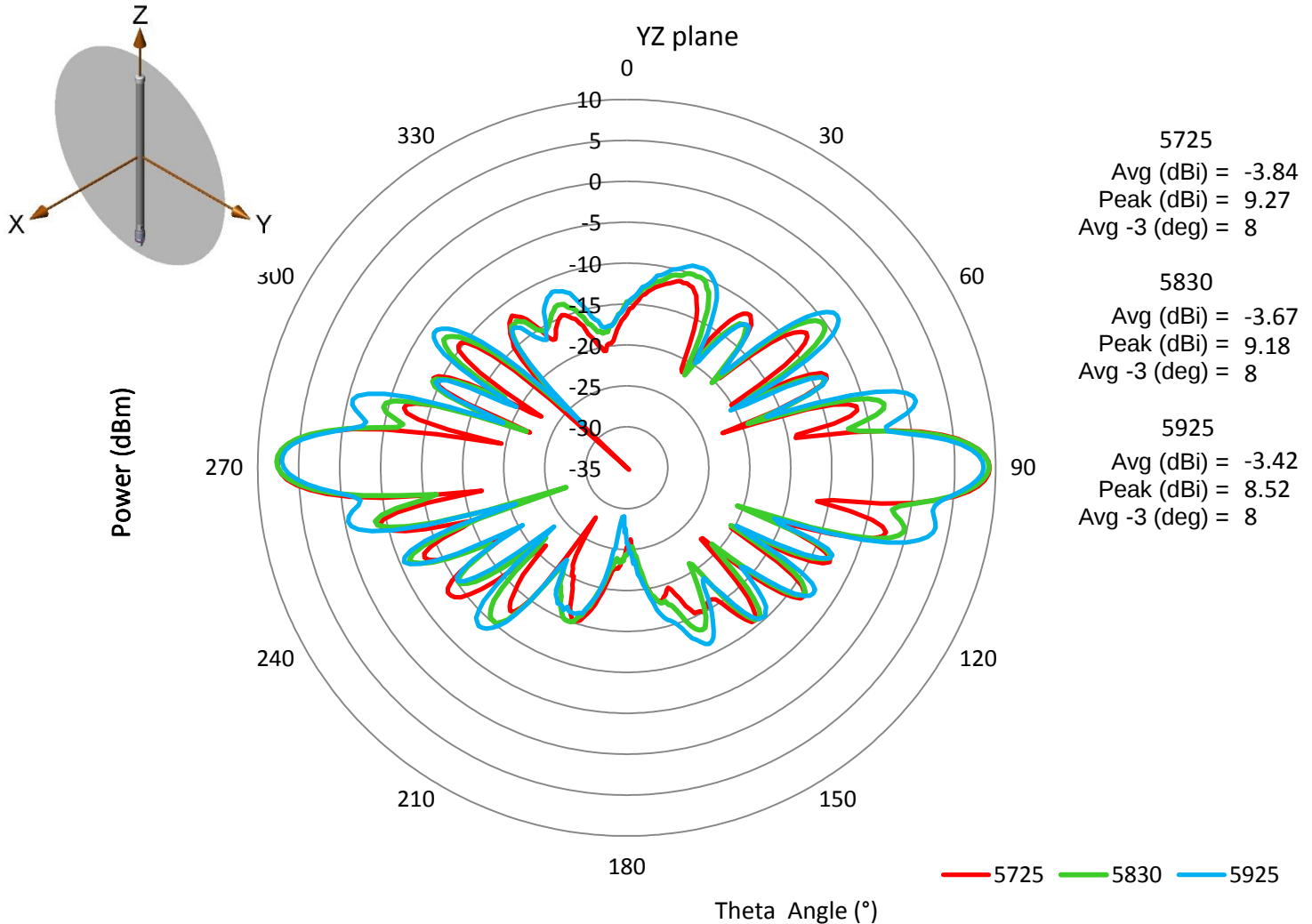
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PACKAGING

Packaged one product per Poly-bag with product label attached to outside of bag.

ASSEMBLY

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