WIFI 6E Antenna

SWA425A– 2400-2500 / 5150-7125MHz



Features & Applications:

- *WIFI 6E bands*
- *I-PEX MHF 4L connector with 95mm cable*
- *Cable and connector can be customized*
- *Soft sponge as the antenna carrier*
- *IoT, M2M, Automation, Security*

ELECTRICAL SPECIFICATIONS @ 25°C

General Specifications

Antenna type	Nominal Impedance	Polarization	Radiation pattern
PIFA	50Ω	Linear	Omni

Frequency (MHz)	2.4～2.5GHz, 5.150～7.125 GHz
Return Loss	<-5dB
Efficiency (%) (pasted on non-metal)	2.4 – 2.5GHz band: 50% 5.150 – 7.125GHz band: 50%
Efficiency (%) (pasted on metal)	2.4 – 2.5GHz band: 60% 5.150 – 7.125GHz band: 50%
Gain (dBi) (pasted on non-metal)	0.5±0.5dBi @ 2.4~2.5GHz 4±1dBi @ 5.150~6GHz 2±1dBi @ 6~7.125GHz
Gain (dBi) (pasted on metal)	3±1dBi @ 2.4~2.5GHz 4.5±1dBi @ 5.150~6GHz 3±1dBi @ 6~7.125GHz

MECHANICAL SPECIFICATIONS

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Dimension (Radiator) (Length x Width x Height)	Color	Cable OD	Connector Type	Cable length
29mm x 26.8mm x 3.65mm	Black	1.13mm	IPEX MHF 4L	95mm

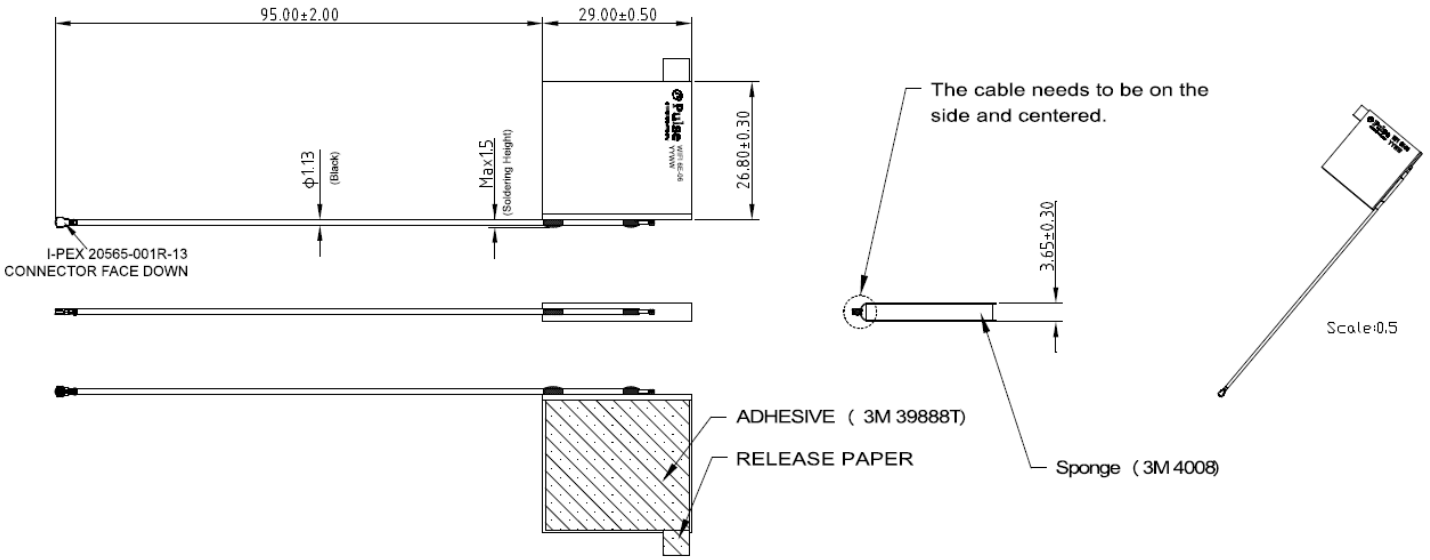
ENVIRONMENTAL SPECIFICATIONS

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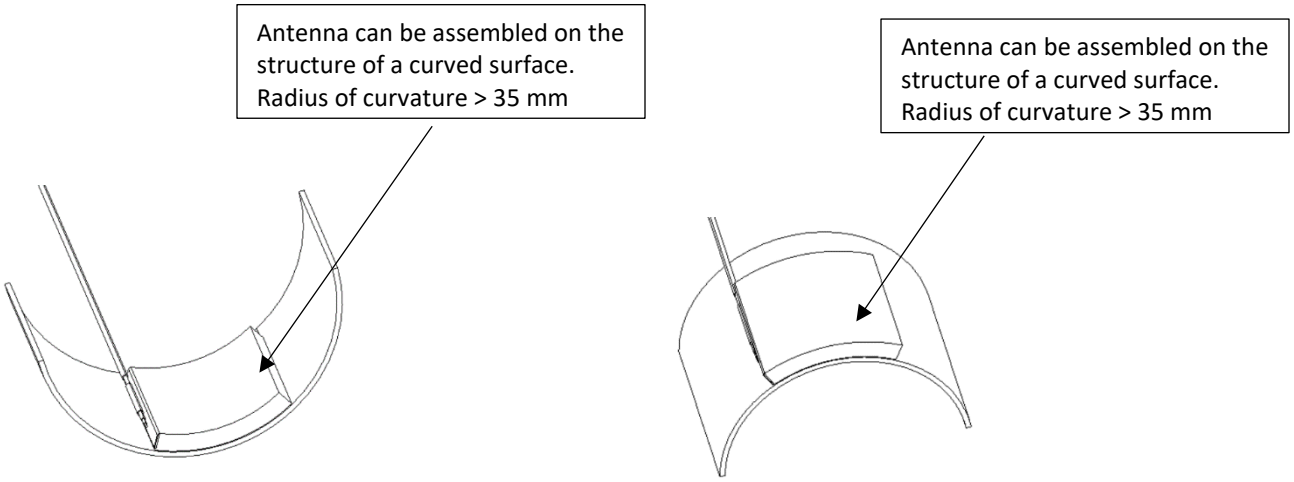
Storage Temperature	Operating Temperature	Ingress Protection	RoHS Compliant
-40/+85° C	-40/+85° C	N/A	Yes

Mechanical Drawing

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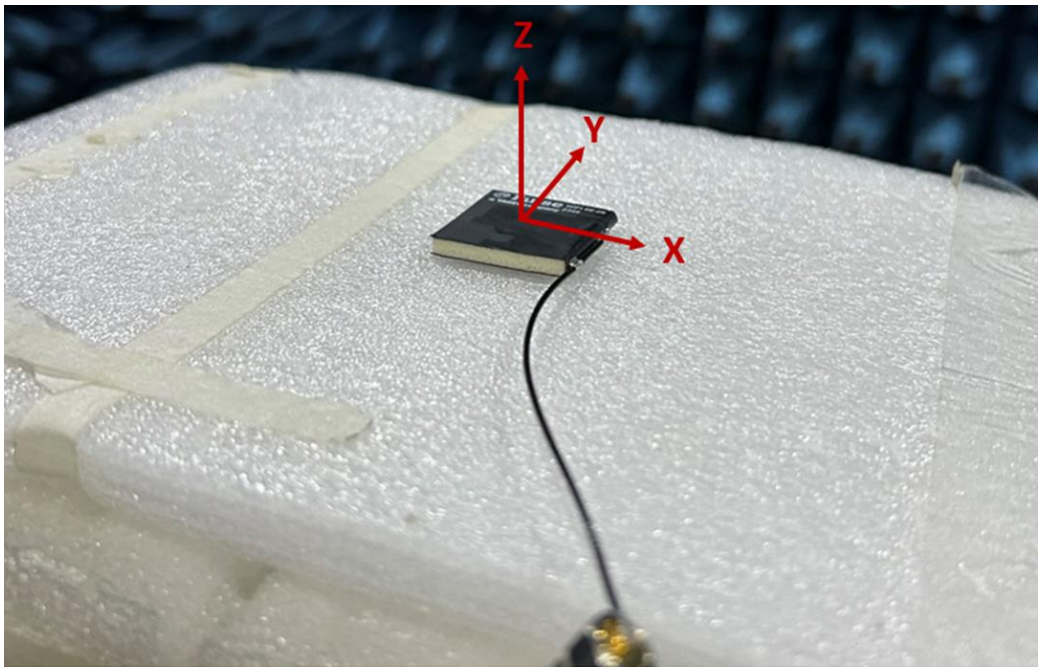
Units: mm



Test setup (pasted on non-metal)

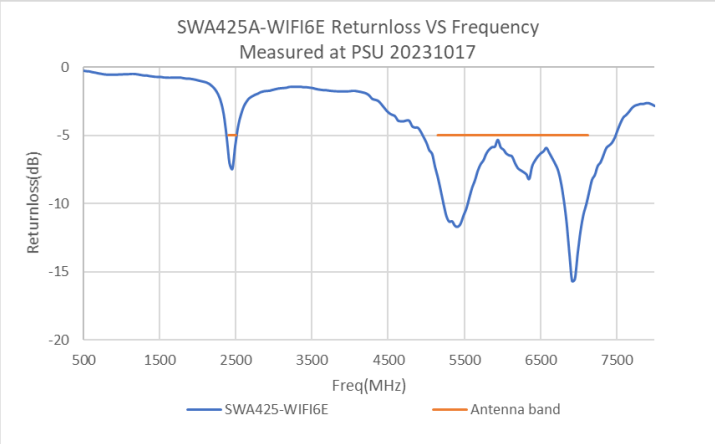
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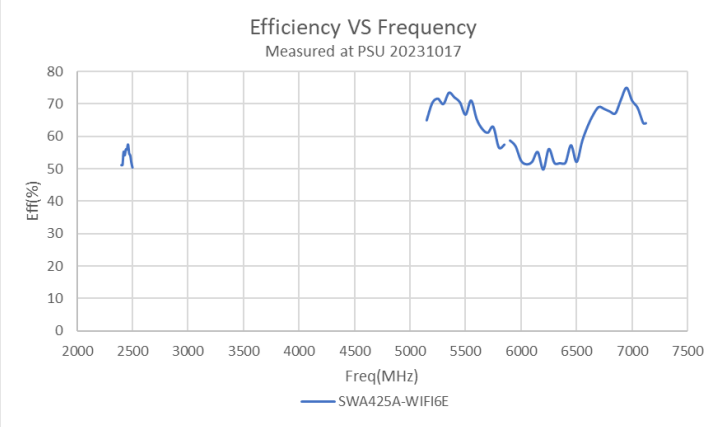
Charts- Antenna Return loss (pasted on non-metal)

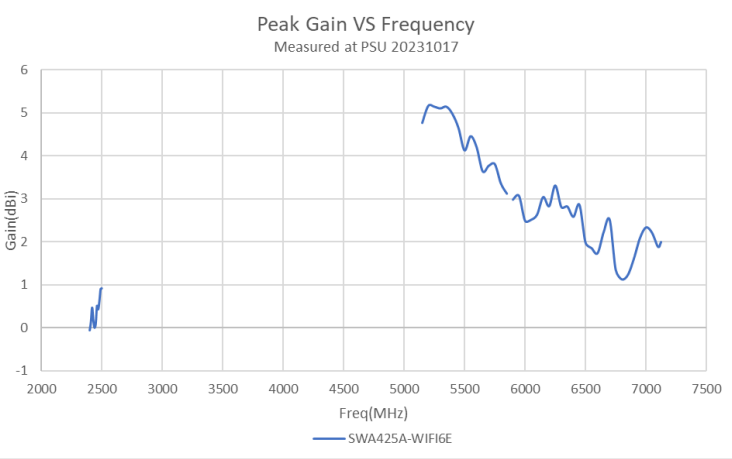
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Charts – Efficiency & Peak Gain (pasted on non-metal)

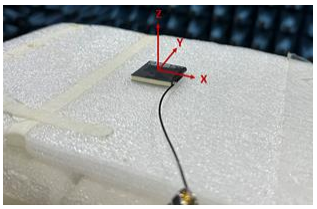
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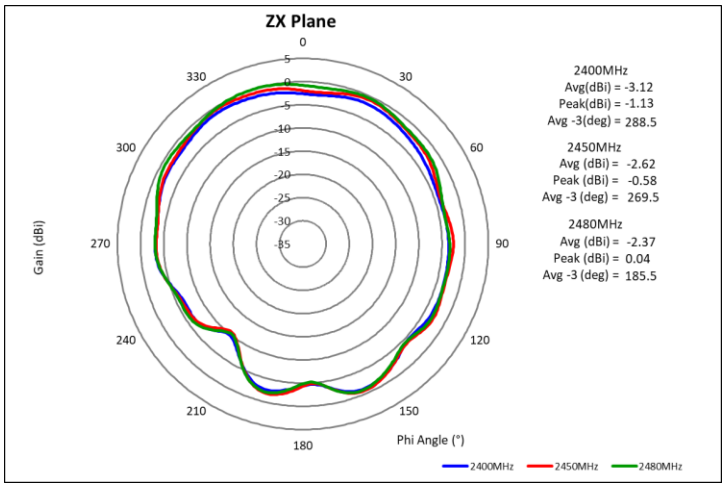


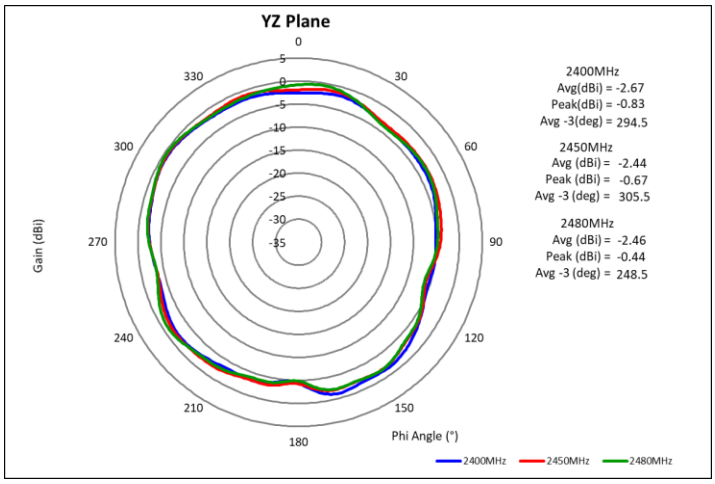


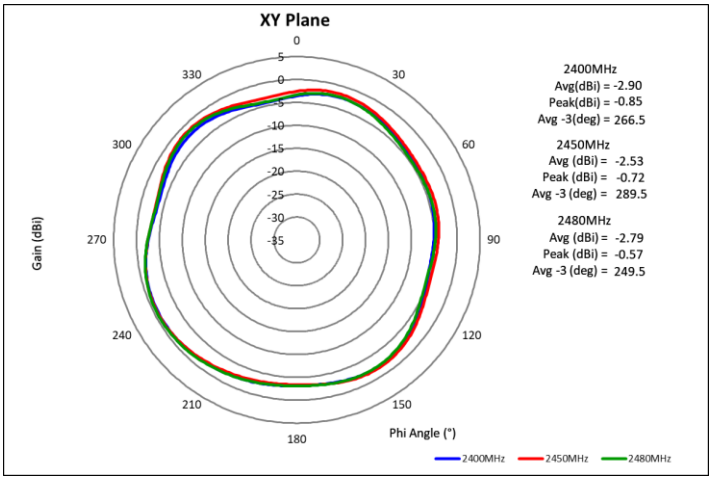
Charts – Antenna Radiation Gain Pattern (pasted on non-metal)

SWA425A | 2400,2450,2480MHz



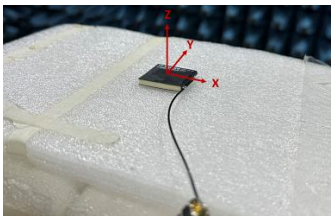


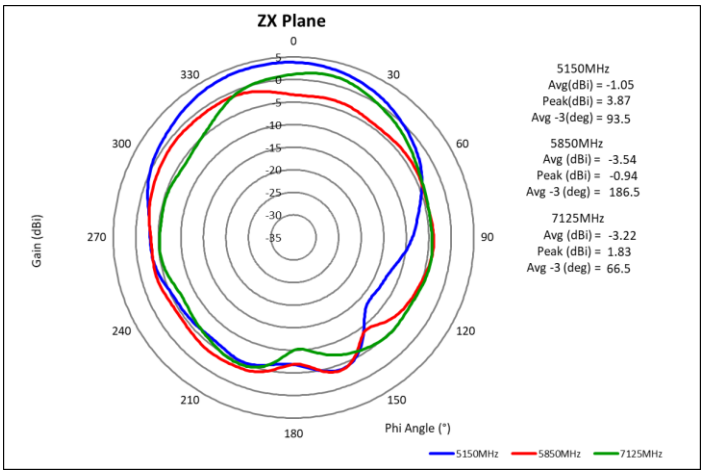


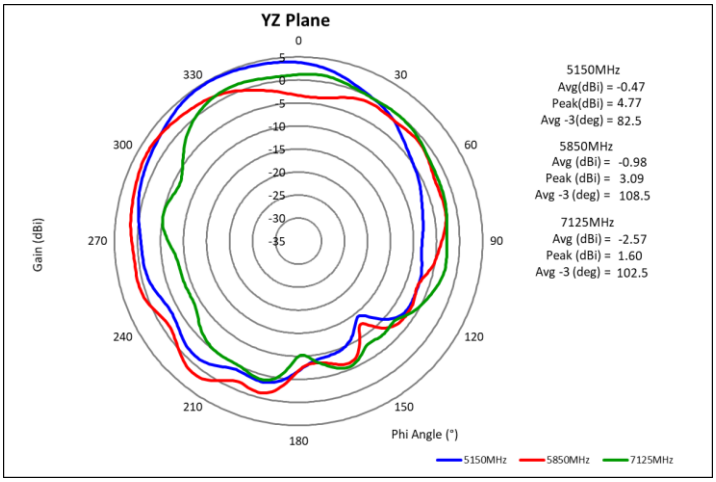


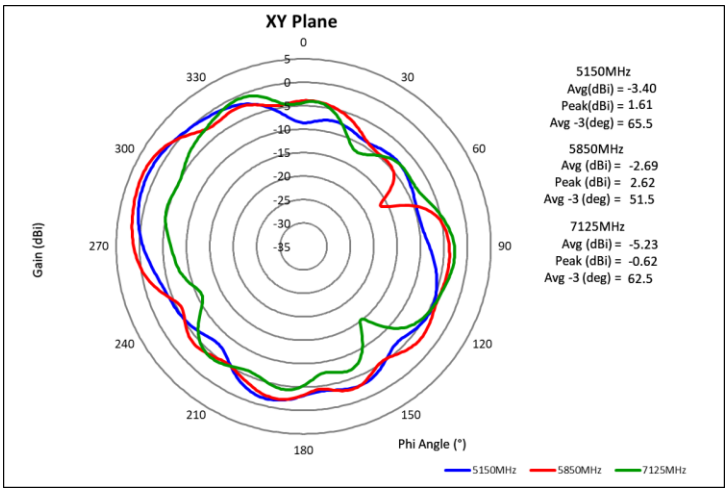
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SWA425A 5150,5850,7125MHz



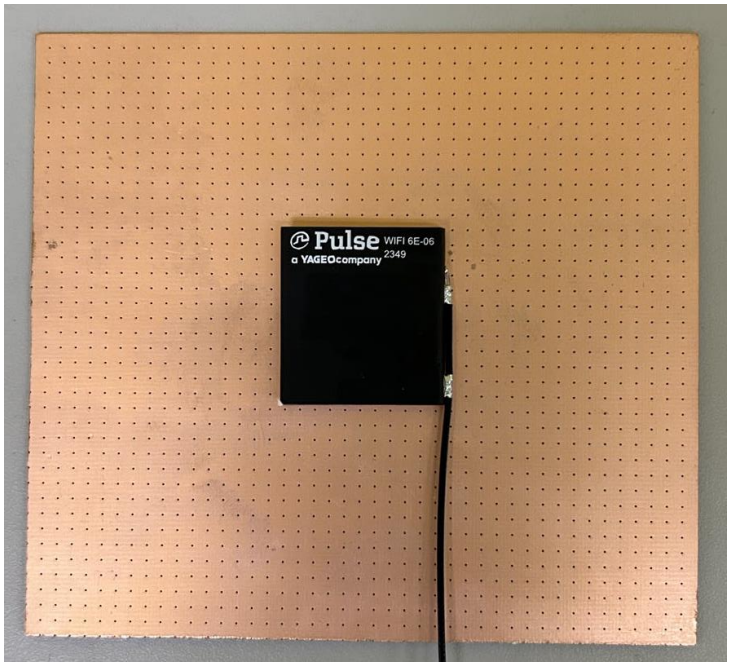




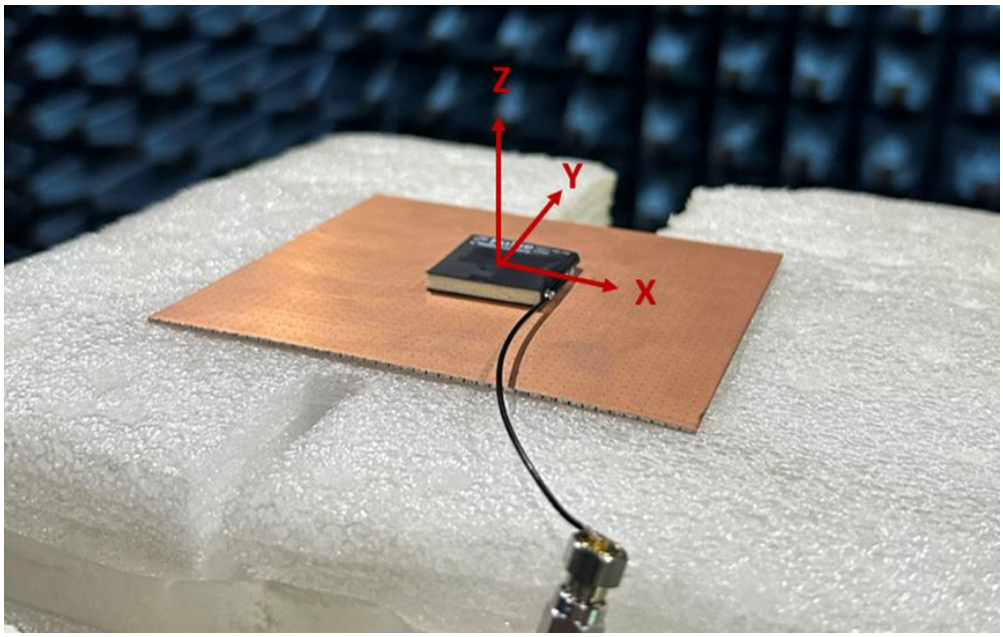


Test setup (pasted on metal)

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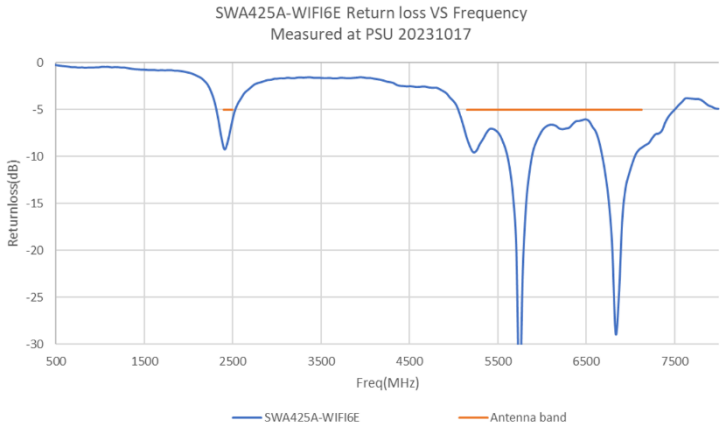


Antenna assembled centered on the ground plane (110mm*100mm)



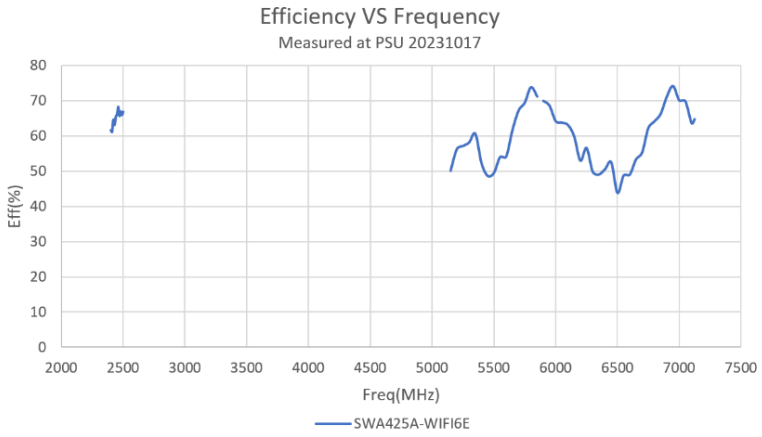
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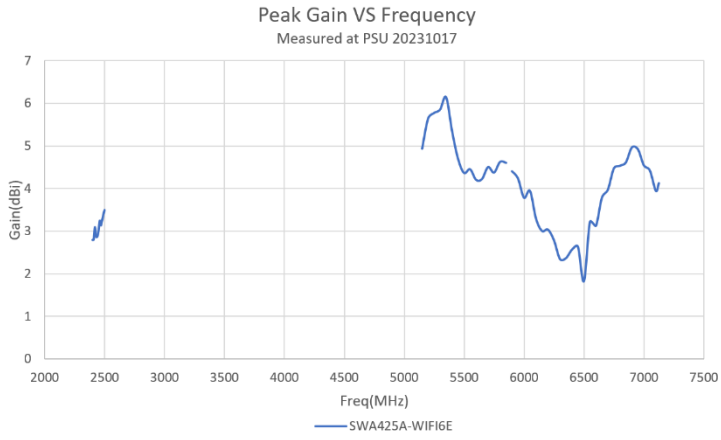
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Charts – Efficiency & Peak Gain (pasted on metal)

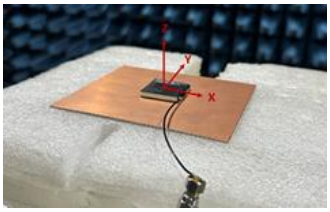
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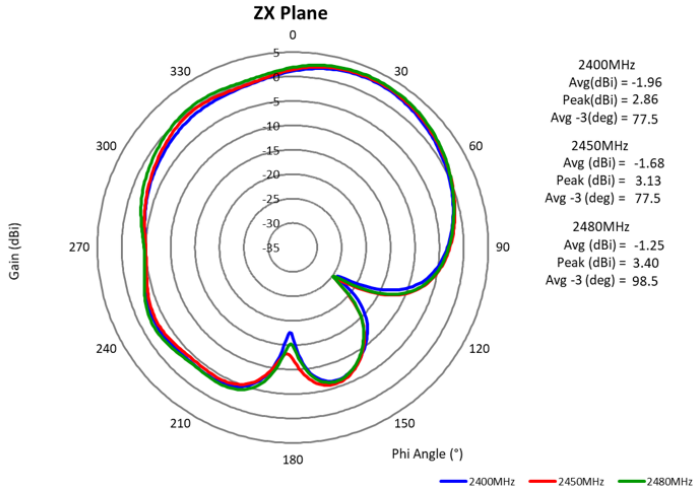


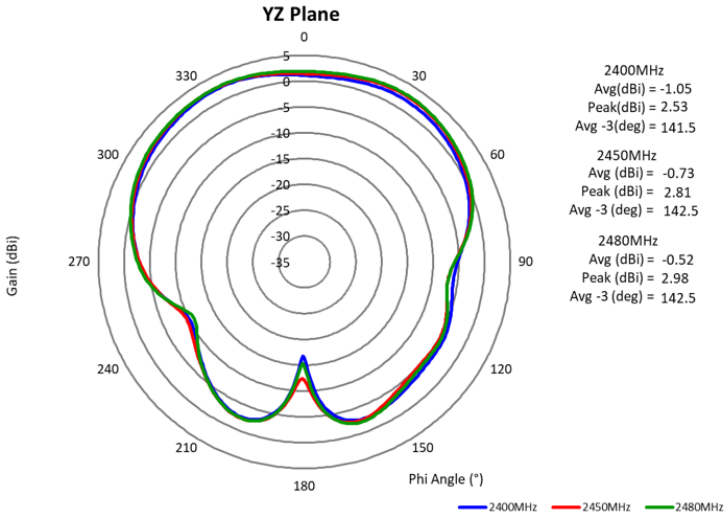


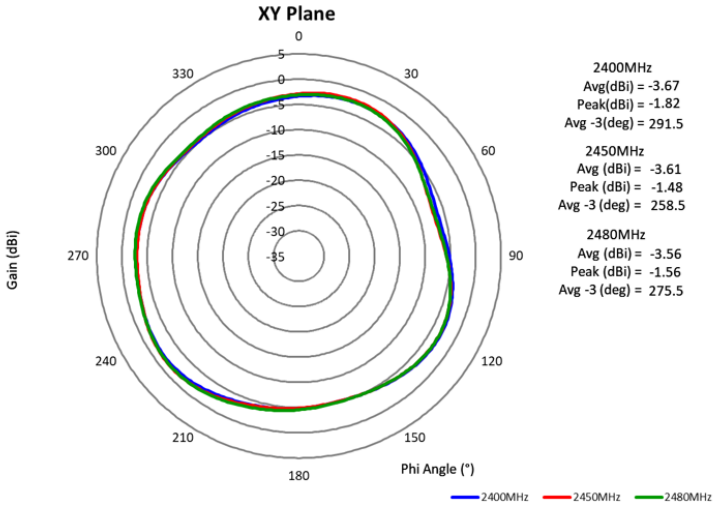
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SWA425A 2400,2450,2480MHz



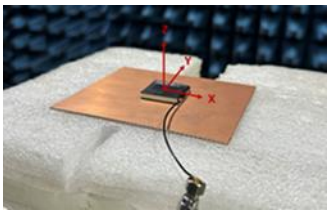


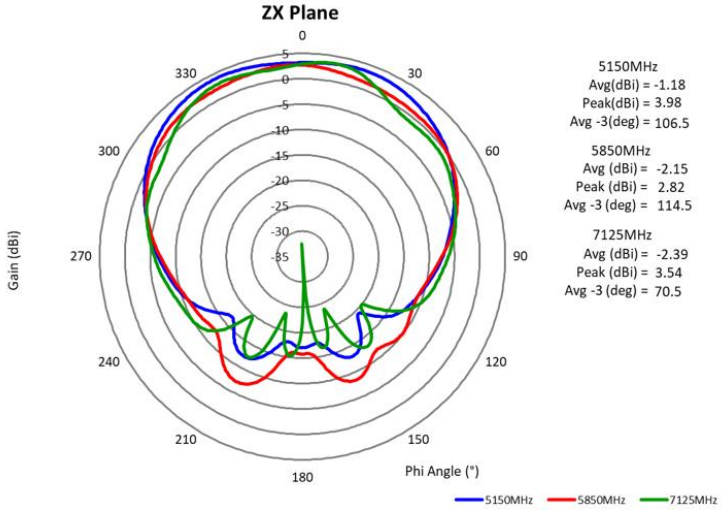


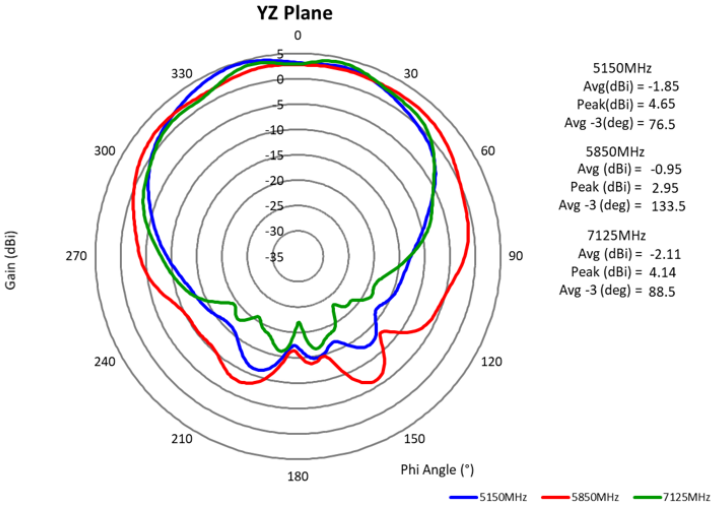


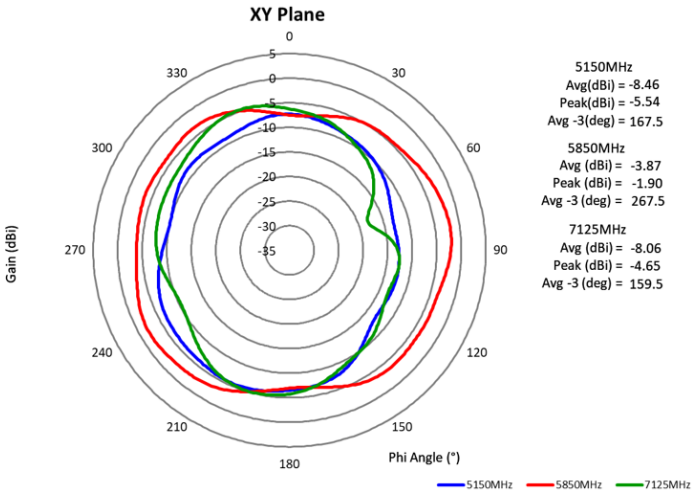
Charts – Antenna Radiation Gain Pattern (pasted on metal)

SWA425A | 5150,5850,7125MHz









PACKAGING

SWA425A

1. 10 Pcs/PE bag
2. 5 PE bags in a group
3. 60 groups in a box
4. Total 3000 PCS/ box
   Package box: 460mm*235mm*140mm.



10 Pcs/PE bag



5 PE bags in a group



60 groups in a box



Total 3000 PCS/ box
carton box: 460mm*235mm*140mm

For More Information:
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