

Features
<ul style="list-style-type: none"> • LTE/4G • Indoor Antenna • 50 Ohm Impedance • 746-960MHz & 1710-2170MHz • Omni Radiation

Applications
<ul style="list-style-type: none"> • LTE/4G Modem • Automotive Sensors • Smart Devices • Machine To Machine Communication • Mobile Systems



Part Numbering Guide

S AT IA 241A6A CE B7

<p>SUNTSU</p>	<p>ANTENNA</p>	<p>INDOOR ANTENNA</p>	<p>PACKAGE SIZE*</p> <p>241A6A = 241.0mm x 6.0mm</p>	<p>APPLICATION</p> <p>CE = Cellular</p>	<p>FREQUENCY</p> <p>B7 = 746-960MHz 1710-2170MHz</p>
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* Where letters denote decimal location (A=0, B=1, C=2, etc.); e.g. B5=0.15, 3A5=3.05, 9A=9.0

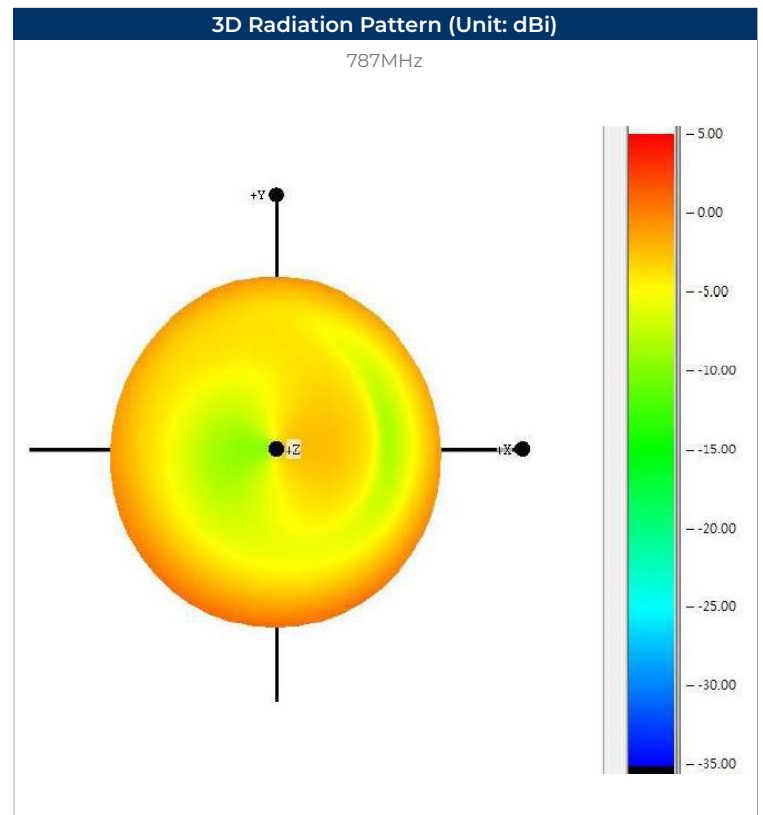
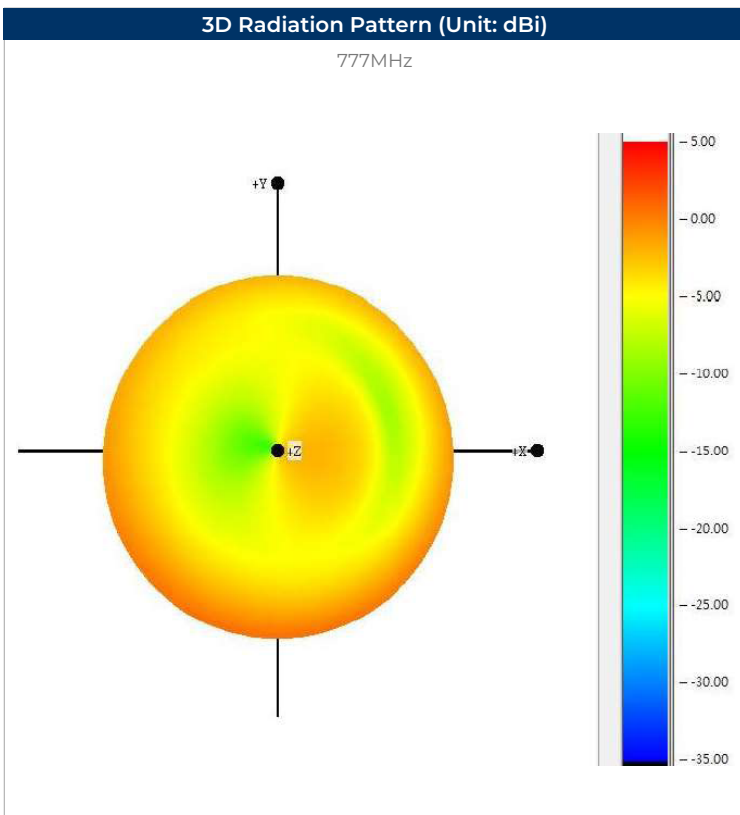
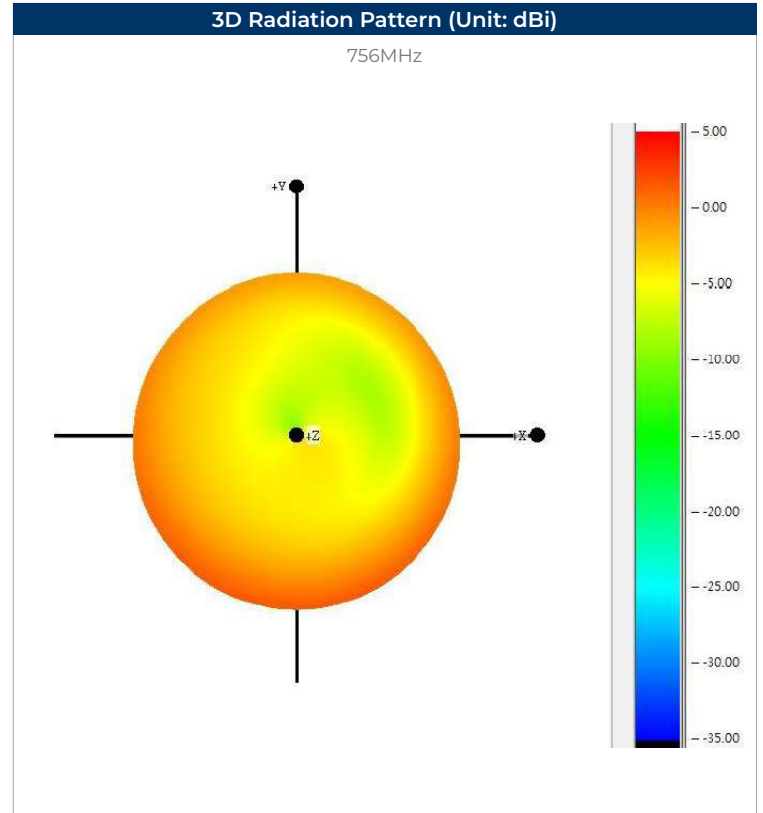
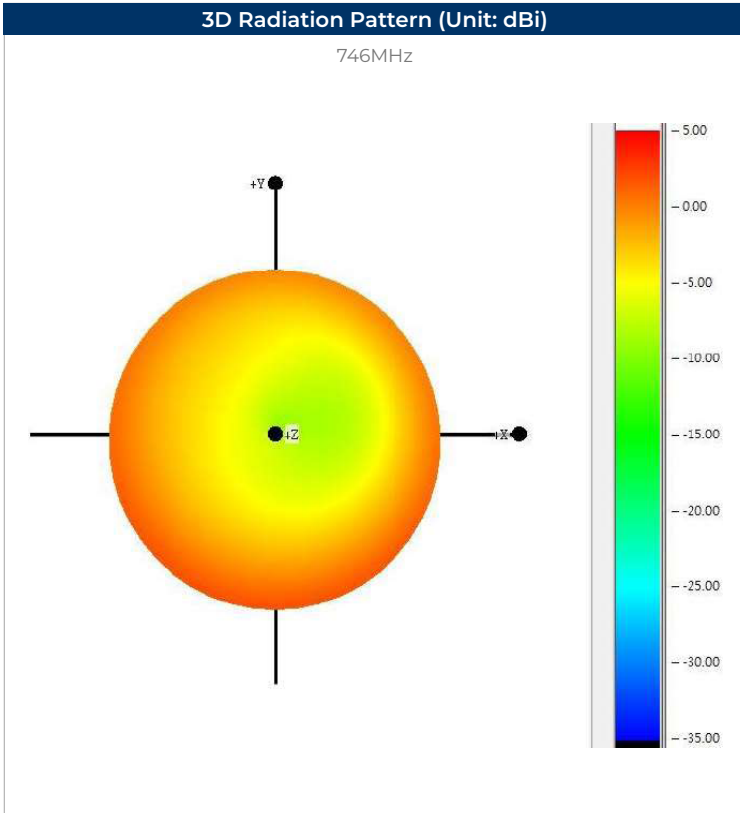
Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Band	MHz	746		960	
Impedance	Ω		50		
Polarization			Vertical		
Peak Gain	dBi		1.5		At 805MHz
Efficiency	%		77		At 805MHz
VSWR				3.5	At Center Frequency
Operating Temperature	C	-20		65	

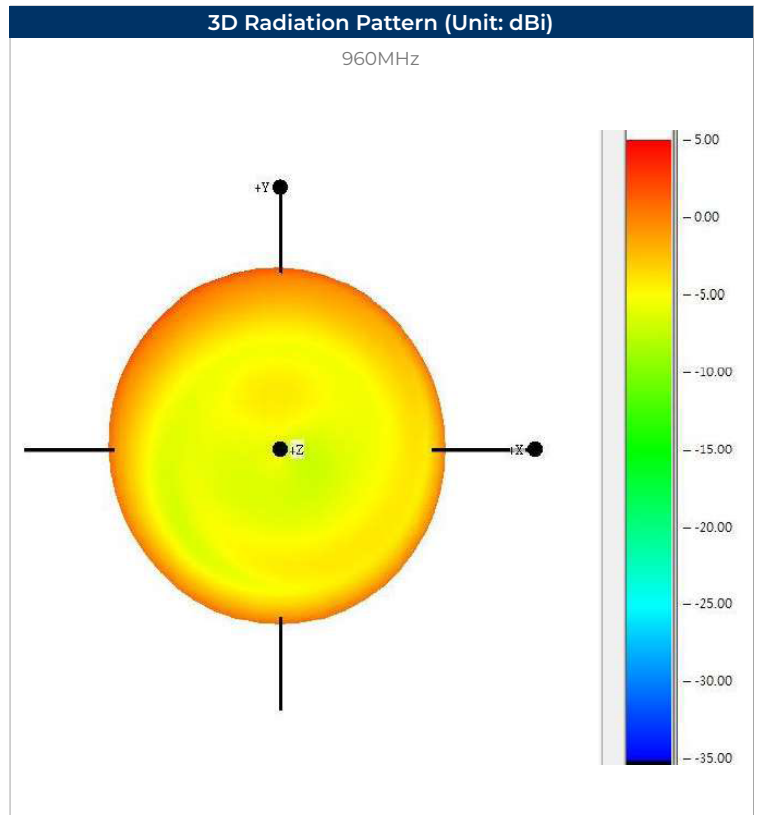
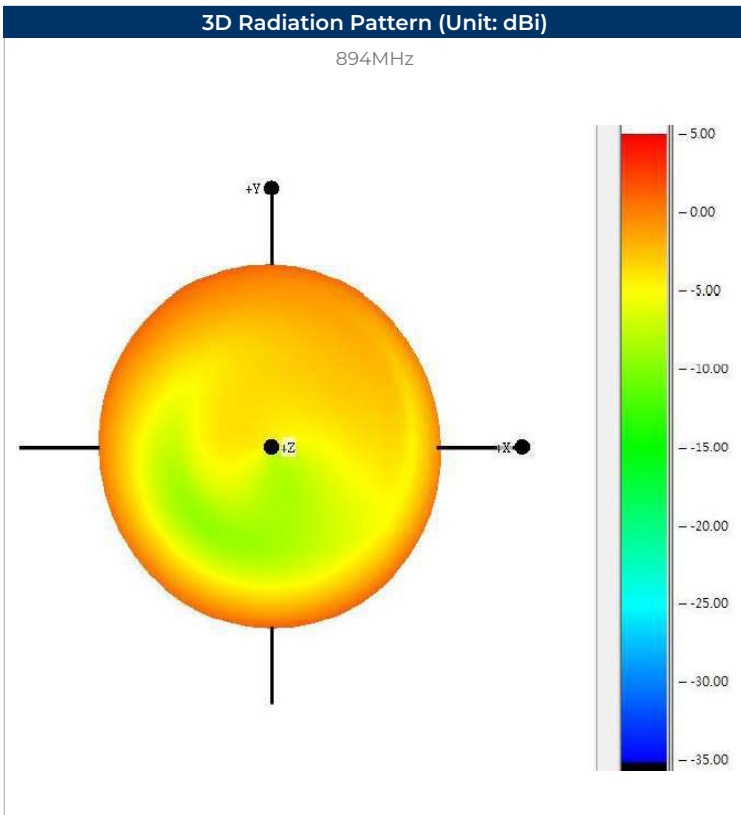
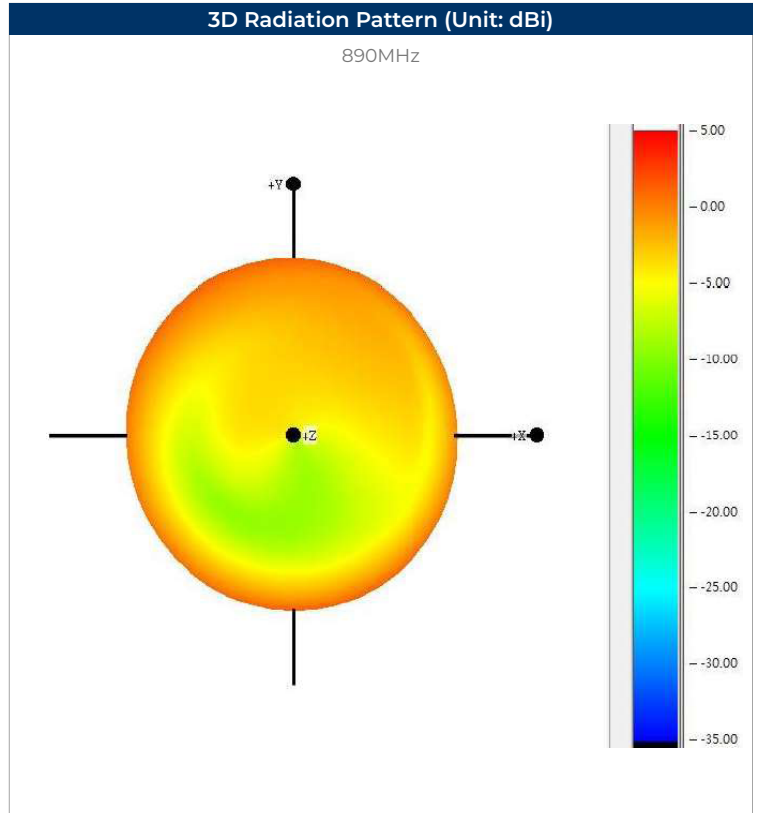
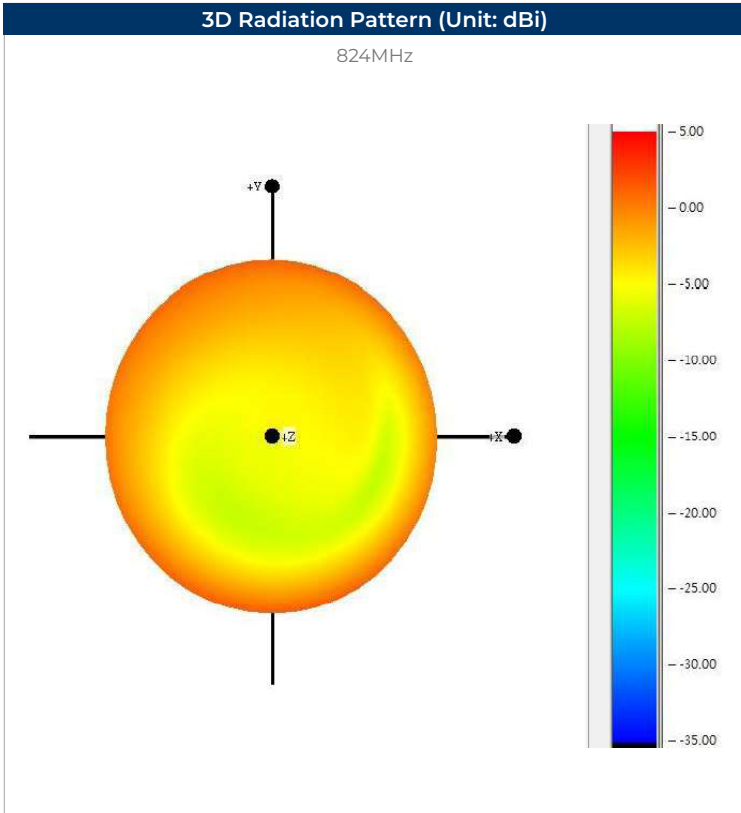
Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Band	MHz	1710		2170	
Impedance	Ω		50		
Polarization			Vertical		
Peak Gain	dBi		-0.4		At 1950MHz
Efficiency	%		58		At 1950MHz
VSWR				3.5	At Center Frequency
Operating Temperature	C	-20		65	

Outline Drawing

All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.

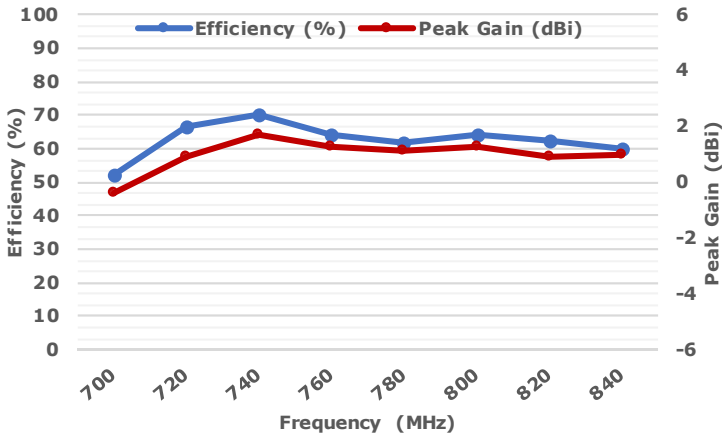
Item	Material
Whip	TPEE
Connector	Brass
Connector Insulator	Teflon





Efficiency vs Frequency

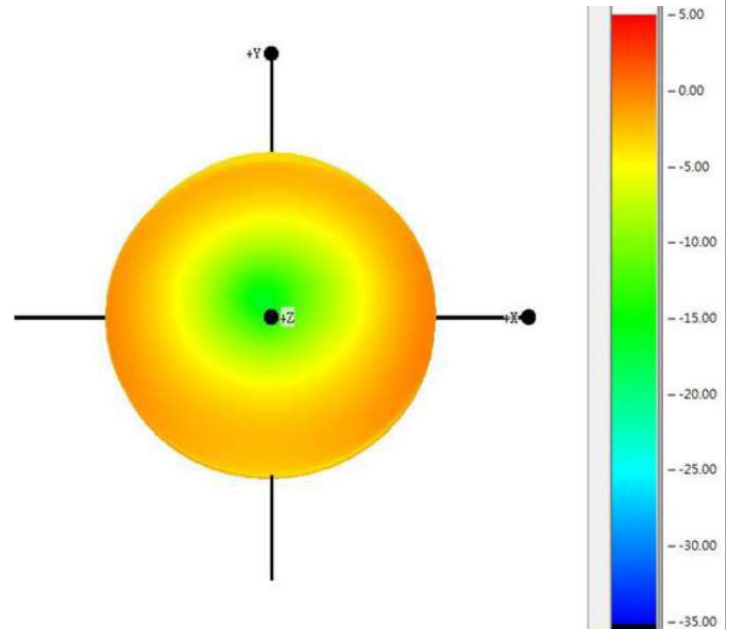
746-960MHz



Frequency	746	756	777	787	824	890	894	960
Efficiency	52.2	58.9	74.1	79.2	76.4	60.6	60.3	51.3
Peak Gain	-0.23	0.41	1.45	1.81	1.18	-0.08	-0.09	-0.45

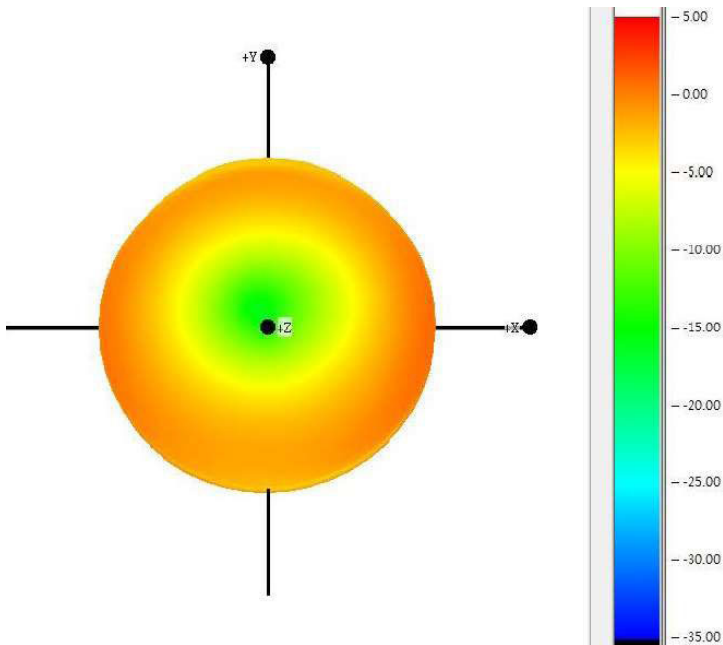
3D Radiation Pattern (Unit: dBi)

1710MHz



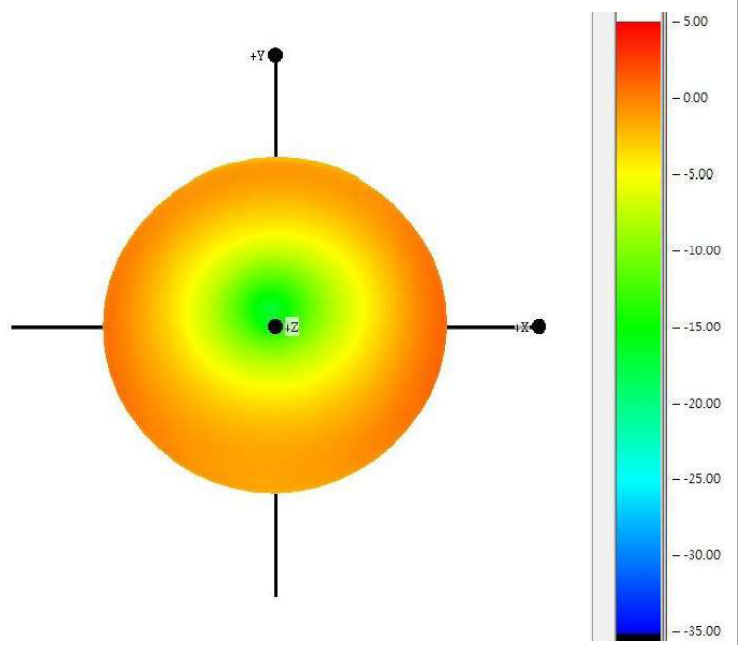
3D Radiation Pattern (Unit: dBi)

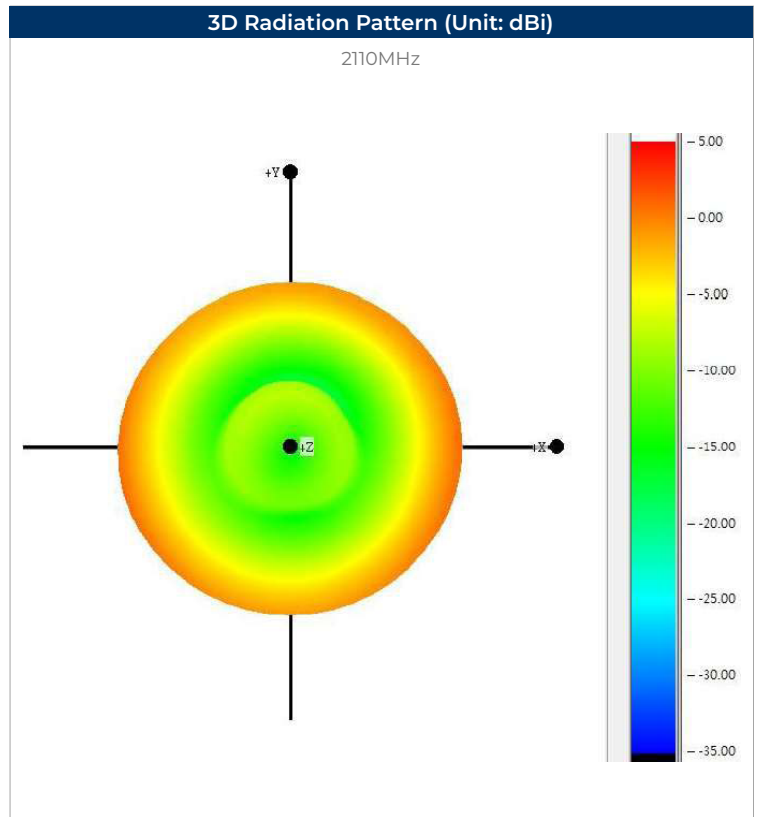
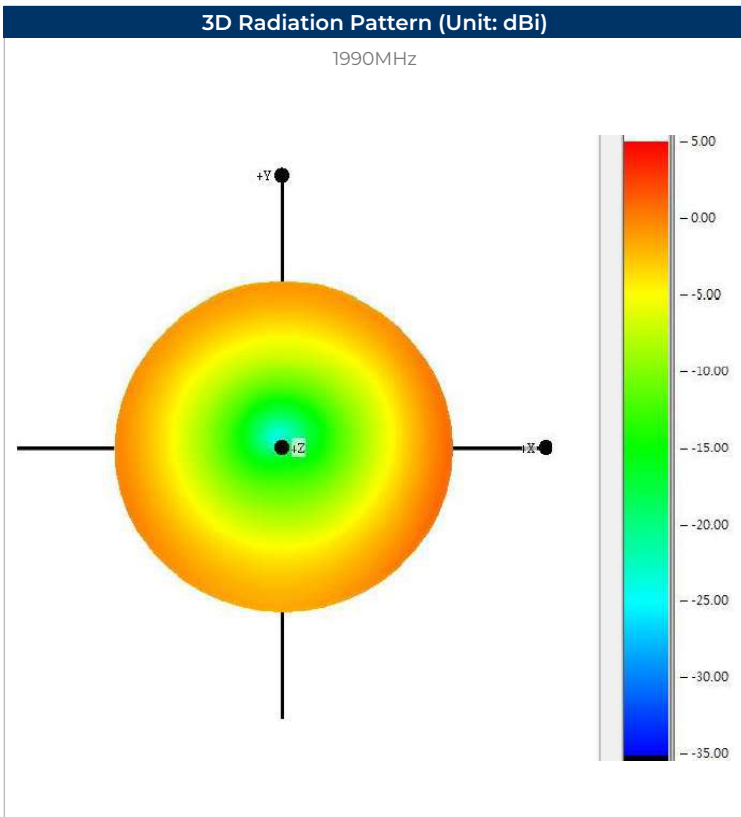
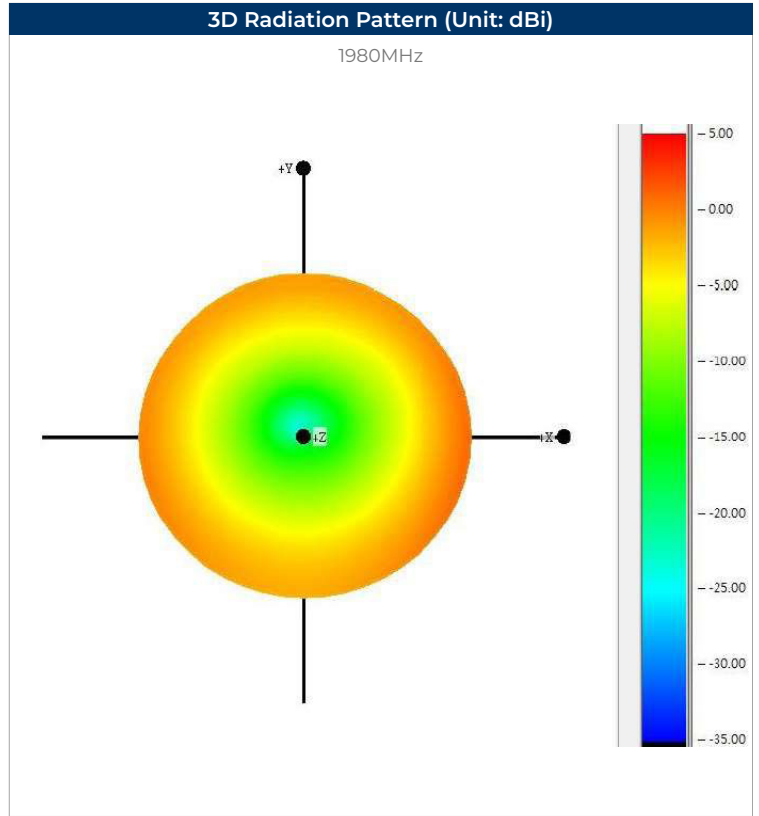
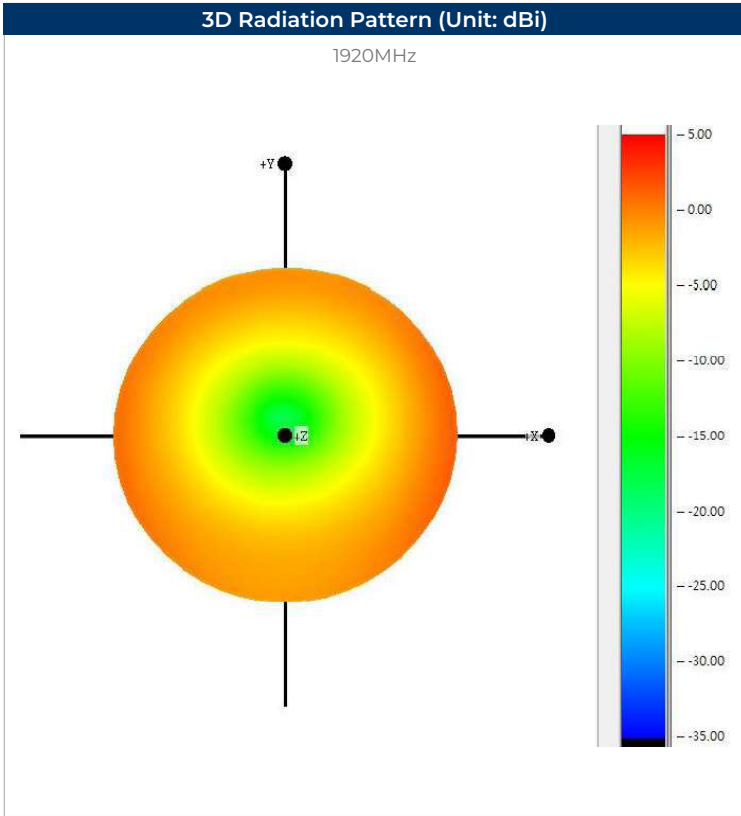
1850MHz

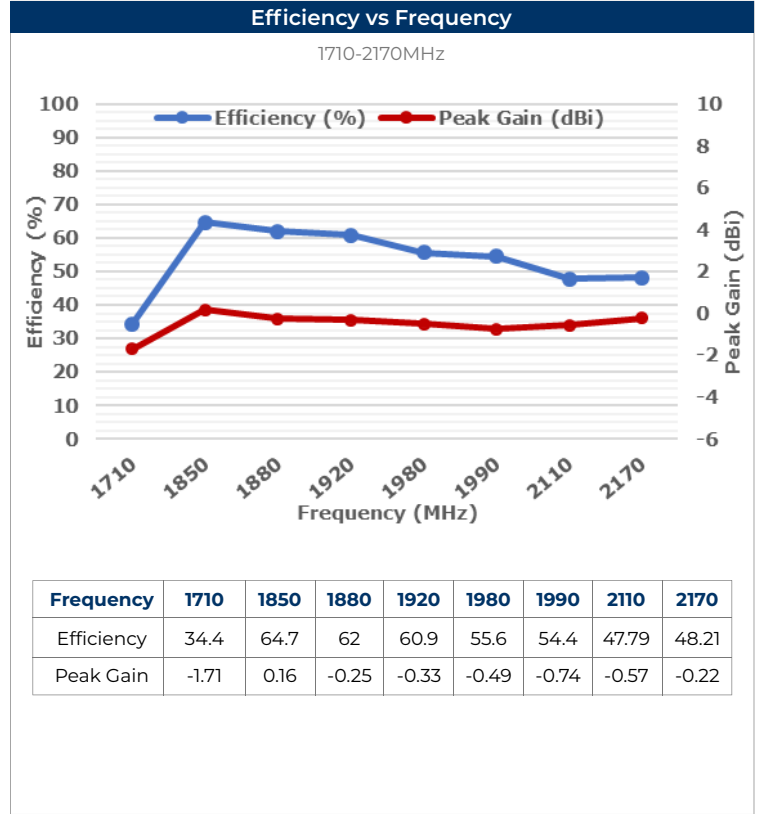
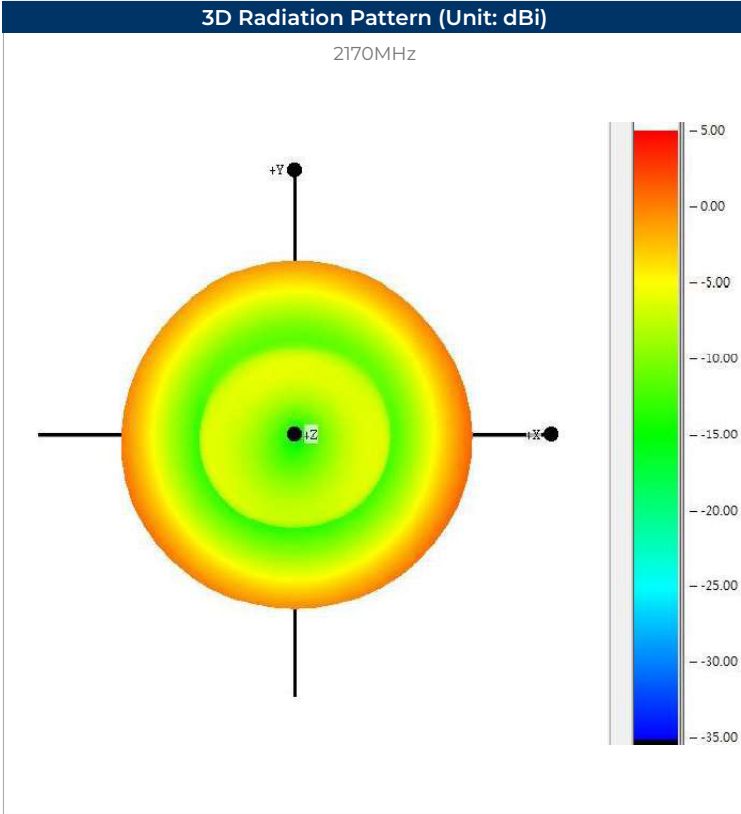


3D Radiation Pattern (Unit: dBi)

1880MHz



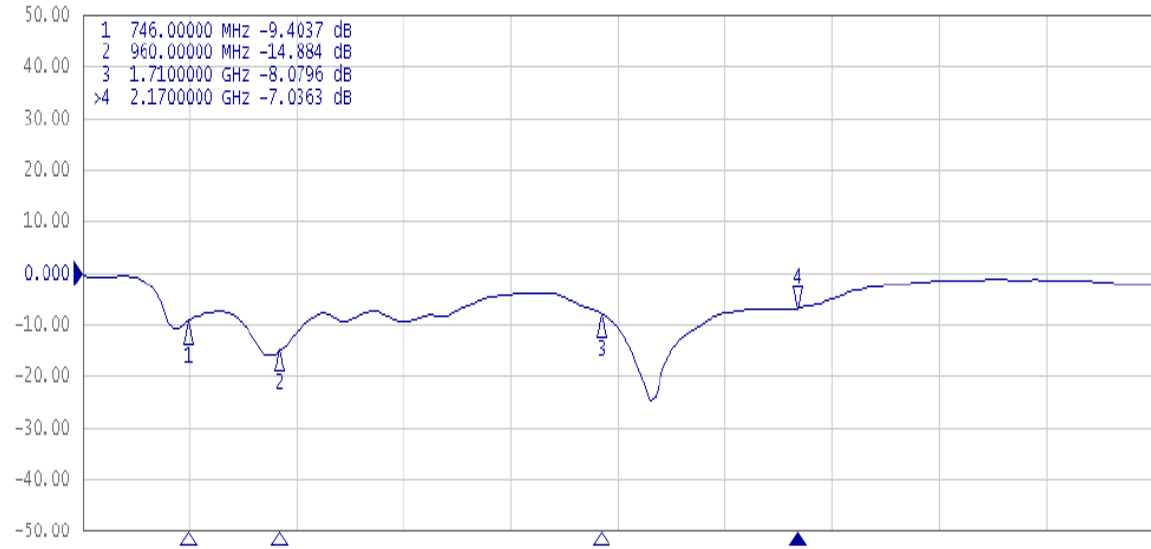




Electrical Test

Return Loss

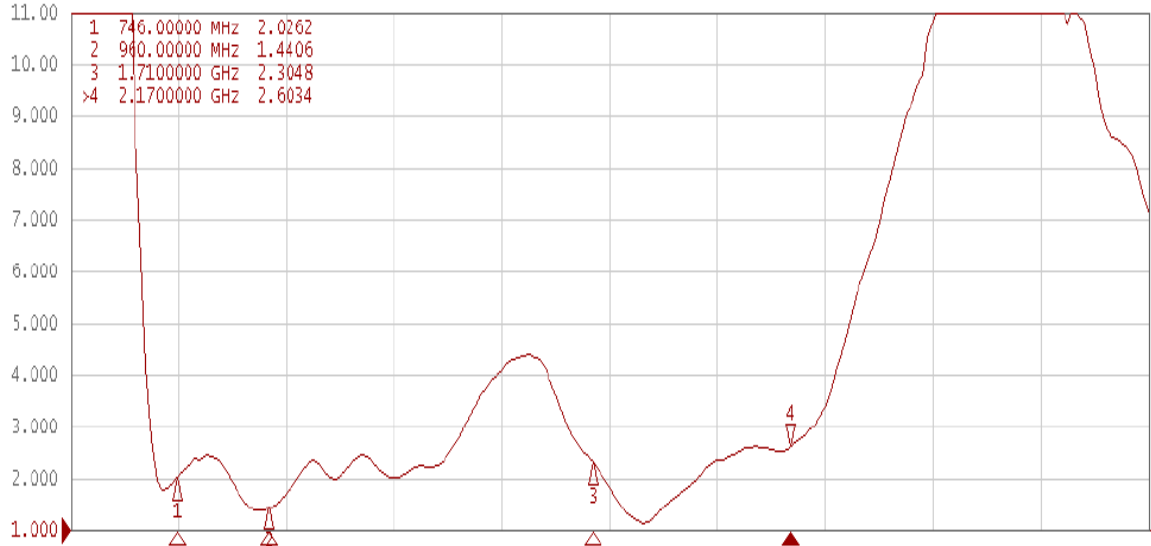
Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F2]



Electrical Test

VSWR

Tr2 S11 SWR 1.000/ Ref 1.000 [F2]



Environmental & Mechanical Specifications

High Temperature Test	70°C for 48 hours, and then to normal temperature/humidity High Temperature Test for 24hours.
Low Temperature Test	-20°C for 48 hours, and then to normal temperature/humidity for 24hours.
Humidity Test	65°C / 90%RH for 48 hours, and then to normal temperature/humidity for 24hours.
Thermal Shock Test	-20°C for 30 min and +70°C for 30 min. 48 cycles, then expose to normal temperature/humidity for 24 hours or more.