Siretta

Enabling Industrial IoT

Delta 26

5G/4G/Bluetooth/LoRa 200mm Hinged Terminal Mount Monopole Antenna

Key Features

- Supports 5G NR/4G LTE/3G UTMS/2G GSM
- Supports LTE Cat M, LTE Cat NB & NR Cat NB
- Supports Wi-Fi 4/5/6 on 2.4 GHz Bands
- Supports Bluetooth/Zigbee/Z-Wave/ISM 2450/WLAN 2400/IEEE 802.15.4 Band
- Supports ISM 5800/WLAN 5800 Band
- Supports LoRa, Sigfox, Helium, Weightless, Z Wave
- Ideal for Wireless LAN and Bluetooth
- Omni-directional

Additional Considerations

- Direct device connection
- Ground Plane Independent

General Description

The Delta 26 is a hinged direct connect antenna that provides high gain in the upper frequencies for 2G/3G/4G/5G, Wi-Fi, Bluetooth and ISM.

Variable antenna positioning allows the best signal to be obtained using the built-in knuckle and swivel functionality.

The Delta 26 is supplied as standard with an SMA male connector, and it can be supplied with a reverse polarity connector for volume orders.

D Direct	5G New Radio	4G LTE	3G UMTS	2G GSM
LTE Cat M	LTE NB IoT	ISM 915	ISM 2450	ISM 5800
WLAN 2400	WLAN 5800	WiFi 2.4G	WiFi 4 802.11n	WiFi 5 802.11ac
WiFi 6 802.11ax	WiFi 2.4G & 5G	ZB Zigbee	IEEE 802.15.4	LoRa Wireless
SF Sigfox	Z Wave	HNT Helium	W Weightless	BLE Bluetooth
AoA Bluetooth	AoD Bluetooth			

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Electrical Specifications

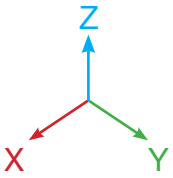
Impedance:	50 Ohm
Polarization:	Vertical
Max Input Power:	50 W
Ground plane independent:	Yes

Environmental Specifications

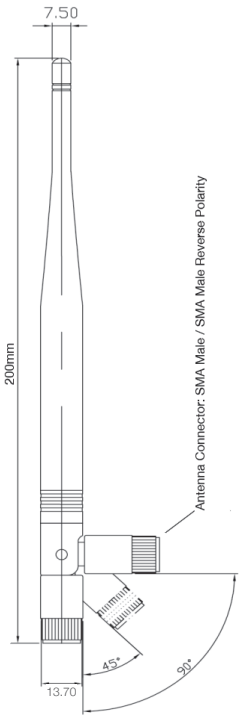
Operating Temperature range:	-30 to 80 °C
Storage Temperature range:	-40 to 80 °C

Mechanical Specifications

Dimensions:	L200 x 13.7 mm base diameter
Weight:	30 g
Connector:	SMA male / RP-SMA male
Mounting method:	Direct Connect
Housing materials:	ABS, PA6



orientation



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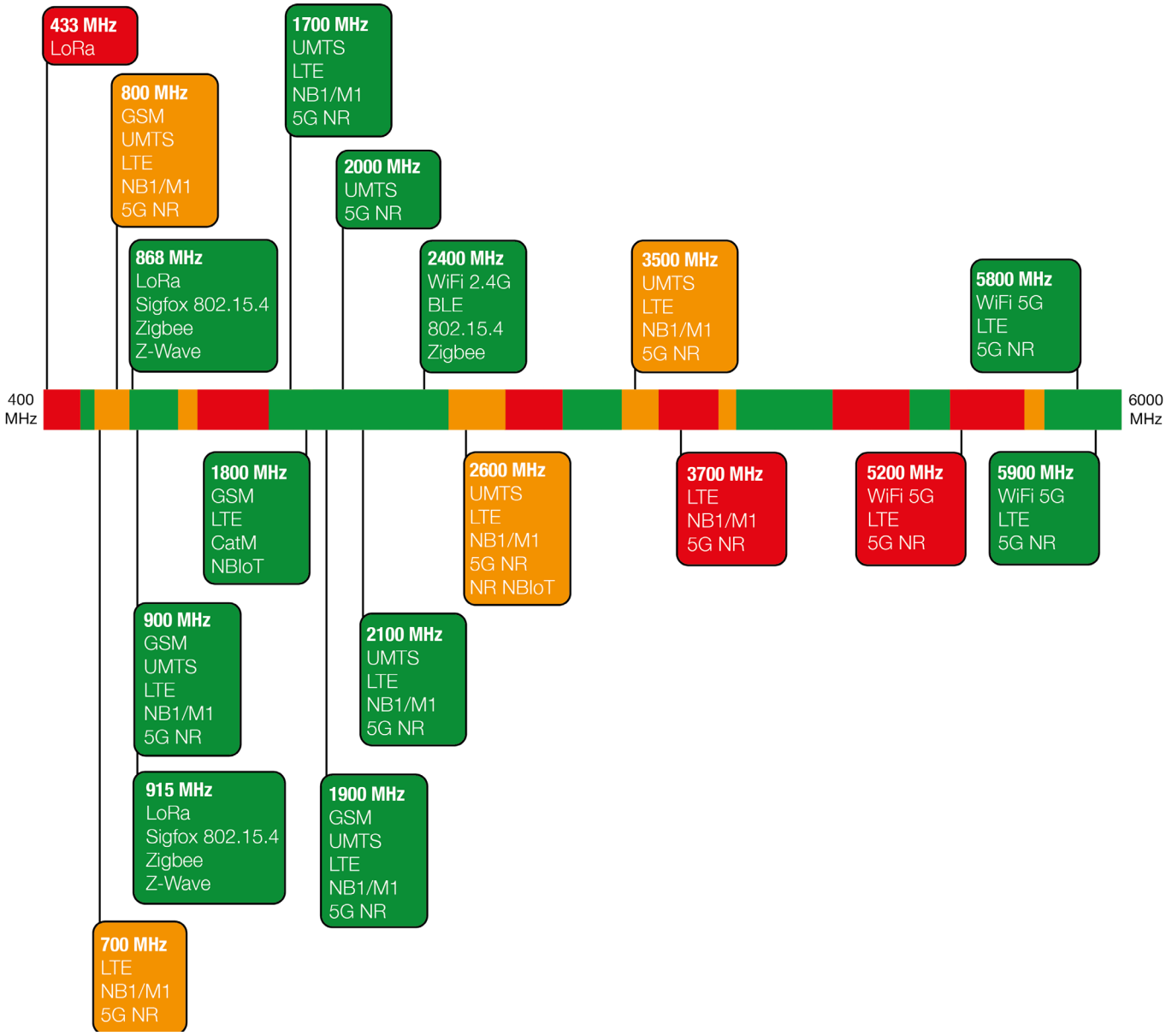
Spectrum Coverage



● Suitable band ● Adequate band in good signal conditions ● Likely to be unsuitable

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Usable Cellular Frequency Support (410 MHz – 1900 MHz)

	410	450	600	700	800	850	900	1500	1600	1700	1800	1900
GSM Bands:							●				●	●
UMTS Bands:				●			●			●	●	●
LTE Bands:			●	●			●			●	●	●
LTE Cat M Bands:			●	●			●			●	●	●
LTE Cat NB Bands:			●	●			●			●	●	●
5G NR Bands:			●	●			●			●	●	●
NR Cat NB Bands:				●			●			●	●	●

Usable Cellular Frequency Support (2000 MHz – 5900 MHz)

	2000	2100	2300	2400	2500	2600	3300	3500	3700	4700	5200	5900
GSM Bands:												
UMTS Bands:		●										
LTE Bands:	●	●	●	●			●					●
LTE Cat M Bands:		●	●									
LTE Cat NB Bands:		●										
5G NR Bands:	●	●	●	●								●
NR Cat NB Bands:		●										

Usable ISM Frequency Support (433 MHz - 5800 MHz)

	433	868	915	2450	5800
Bluetooth				●	
IEEE 802.15.4		●	●	●	
LoRa		●	●		
Sigfox		●	●		
WiFi 2.4G				●	
WiFi 5G					
Zigbee		●	●	●	
Z-Wave		●	●		

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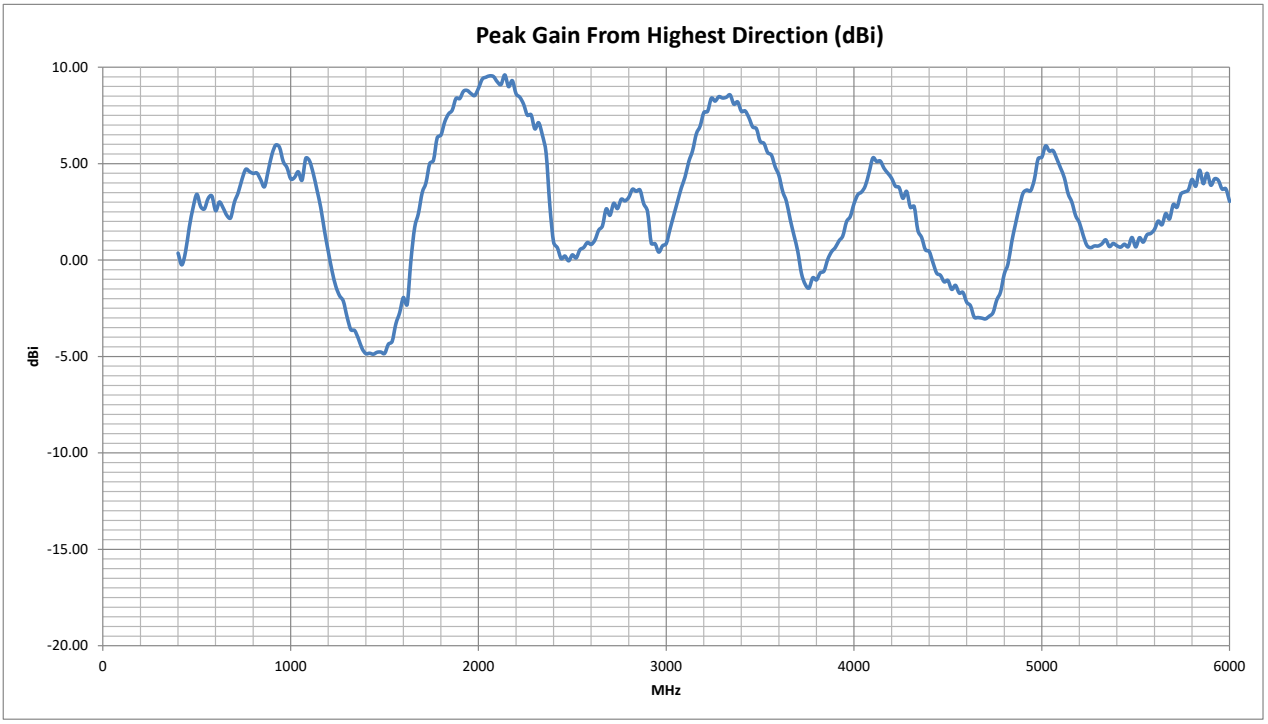
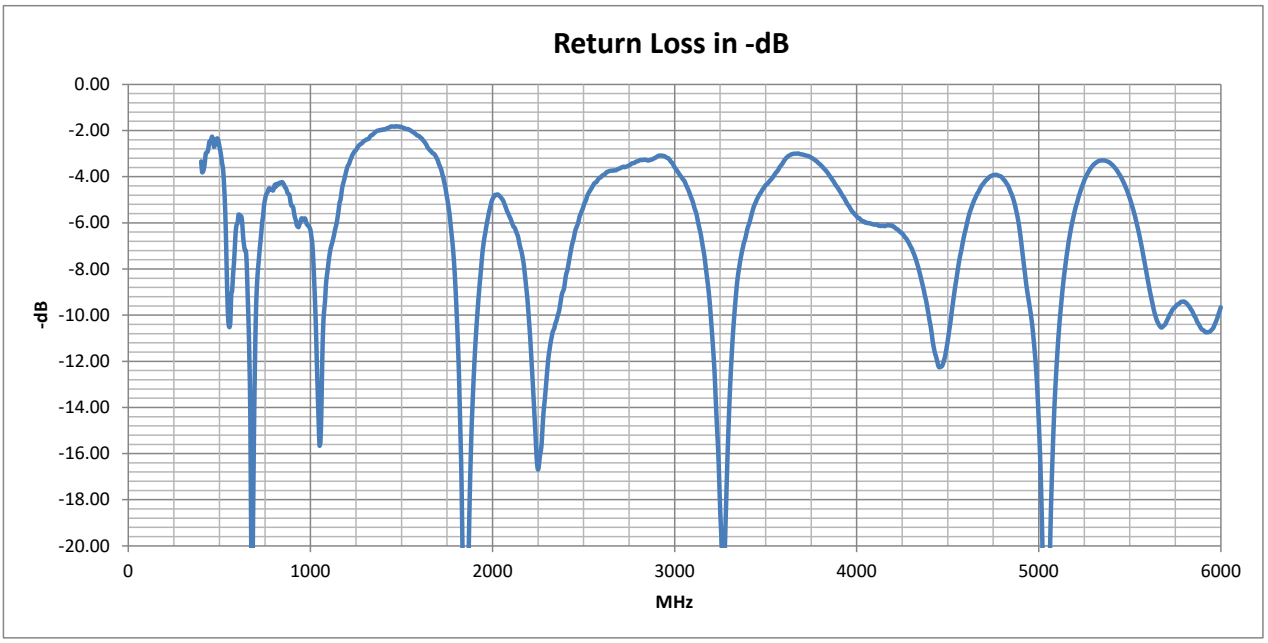
Peak Gain vs. Frequency



Return Loss



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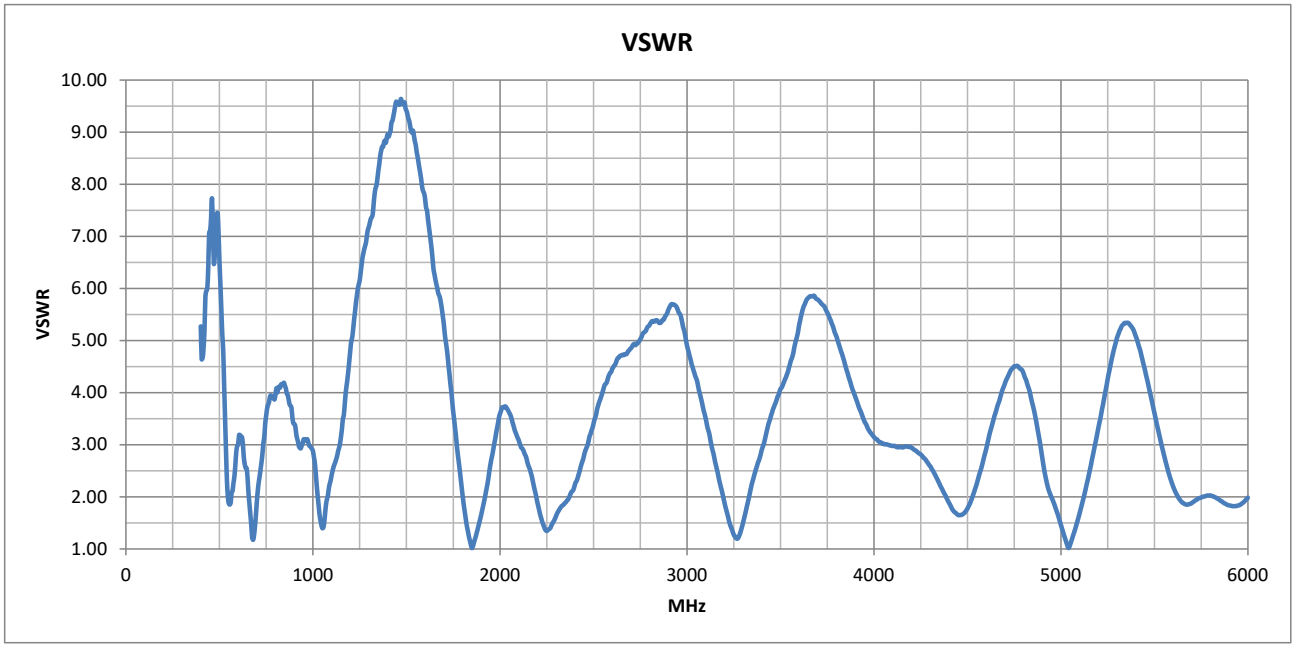
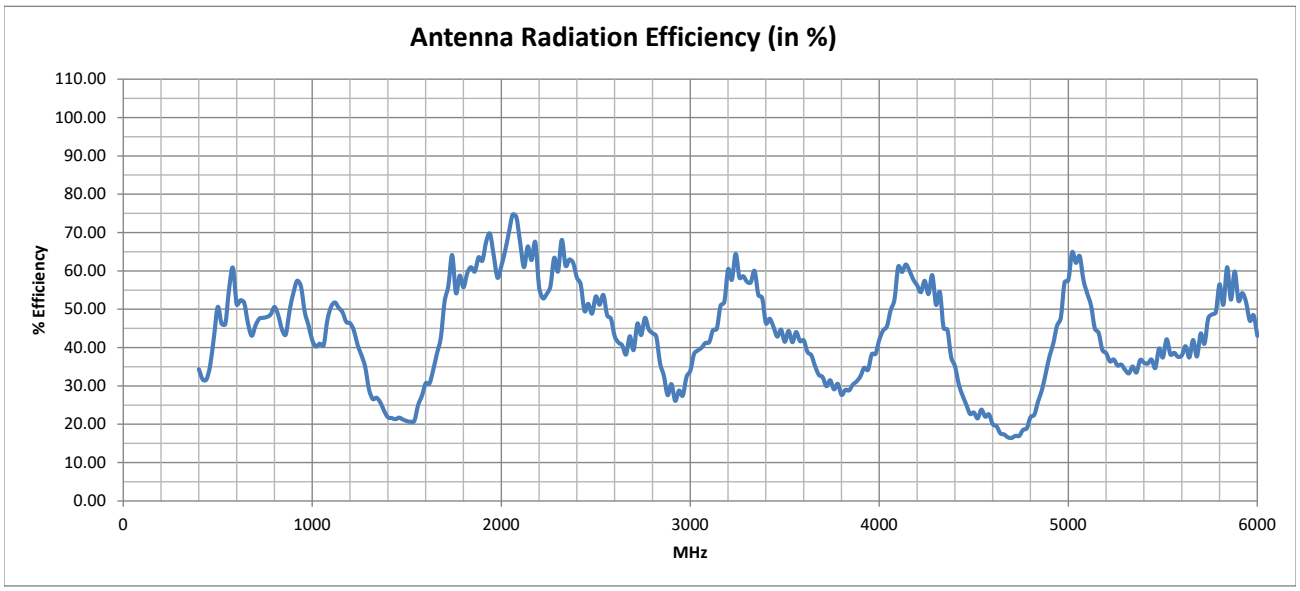
VSWR



Radiation Efficiency



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Cellular Standards Band Support

GSM (2G) Band	UMTS (3G) Band	E-UTRA (4G) Band	Cat M E-UTRA Band	Cat NB E-UTRA Band	NR (5G) Band	Cat NB NR (5G) Band	Uplink	Downlink	Average Upload Efficiency (%)	Average Download Efficiency (%)	Maximum Upload VSWR	Maximum Download VSWR	Use Indicator
	1	1	1	1	n1	n1	1920 - 1980 MHz	2110 - 2170 MHz	65.51	63.84	3.23	2.98	●
PCS-1900	2	2	2	2	n2	n2	1850 - 1910 MHz	1930 - 1990 MHz	62.27	63.99	1.82	3.41	●
DCS-1800	3	3	3	3	n3	n3	1710 - 1785 MHz	1805 - 1880 MHz	58.10	60.21	4.99	1.89	●
	4	4	4	4			1710 - 1755 MHz	2110 - 2155 MHz	59.08	63.87	4.99	2.98	●
GSM-850	5	5	5	5	n5	n5	824 - 849 MHz	869 - 894 MHz	45.53	49.80	4.19	3.88	●
	6						830 - 840 MHz	875 - 885 MHz	45.61	49.55	4.16	3.77	●
	7	7	7	7	n7	n7	2500 - 2570 MHz	2620 - 2690 MHz	51.38	40.54	4.18	4.80	●
E-GSM-900	8	8	8	8	n8	n8	880 - 915 MHz	925 - 960 MHz	53.42	54.30	3.74	3.10	●
	9	9					1749.9 - 1784.9 MHz	1844.9 - 1879.9 MHz	56.81	61.07	3.64	1.36	●
	10	10					1710 - 1770 MHz	2110 - 2170 MHz	58.16	63.84	4.99	2.98	●
	11	11	11	11			1427.9 - 1447.9 MHz	1475.9 - 1495.9 MHz	21.42	21.12	9.58	9.59	●
	12	12	12	12	n12	n12	699 - 716 MHz	729 - 746 MHz	46.46	47.73	2.42	3.44	●
	13	13	13	13	n13	n13	777 - 787 MHz	746 - 756 MHz	48.86	47.87	3.93	3.71	●
	14	14	14	14	n14		788 - 798 MHz	758 - 768 MHz	49.90	48.08	3.93	3.88	●
		17		17			704 - 716 MHz	734 - 746 MHz	46.67	47.75	2.42	3.44	●
		18	18	18	n18	n18	815 - 830 MHz	860 - 875 MHz	47.88	45.78	4.16	3.98	●
	19	19	19	19			830 - 845 MHz	875 - 890 MHz	45.24	50.16	4.19	3.77	●
	20	20	20	20	n20	n20	832 - 862 MHz	791 - 821 MHz	44.40	49.65	4.19	4.11	●
	21	21	21	21			1447.9 - 1462.9 MHz	1495.9 - 1510.9 MHz	21.62	20.82	9.56	9.45	●
	22	22					3410 - 3490 MHz	3510 - 3590 MHz	44.98	42.79	3.95	5.09	●
		24	24	24	n24		1626.5 - 1660.5 MHz	1525 - 1559 MHz	35.06	21.95	7.00	9.03	●
	25	25	25	25	n25	n25	1850 - 1915 MHz	1930 - 1995 MHz	62.53	63.69	1.90	3.52	●
	26	26	26	26	n26		814 - 849 MHz	859 - 894 MHz	46.37	48.34	4.19	4.00	●
		27	27				807 - 824 MHz	852 - 869 MHz	48.87	44.31	4.11	4.11	●
		28	28	28	n28	n28	703 - 748 MHz	758 - 803 MHz	47.35	49.01	3.50	4.04	●

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GSM (2G) Band	UMTS (3G) Band	E-UTRA (4G) Band	Cat M E-UTRA Band	Cat NB E-UTRA Band	NR (5G) Band	Cat NB NR (5G) Band	Uplink	Downlink	Average Upload Efficiency (%)	Average Download Efficiency (%)	Maximum Upload VSWR	Maximum Download VSWR	Use Indicator
		28A					703 - 733 MHz	758 - 788 MHz	47.15	48.48	2.95	3.95	●
		29			n29		N/A	717 - 728 MHz	N/A	47.53	N/A	2.76	●
		30			n30		2305 - 2315 MHz	2350 - 2360 MHz	63.96	62.56	1.74	1.93	●
		31	31	31			452.5 - 457.5 MHz	462.5 - 467.5 MHz	34.47	37.26	7.53	7.43	●
	32	32					N/A	1452 - 1496 MHz	N/A	21.36	N/A	9.63	●
		33					1900 - 1920 MHz	1900 - 1920 MHz	65.13	65.13	1.99	1.99	●
		34			n34		2010 - 2025 MHz	2010 - 2025 MHz	64.71	64.71	3.73	3.73	●
		35					1850 - 1910 MHz	1850 - 1910 MHz	62.27	62.27	1.82	1.82	●
		36					1930 - 1990 MHz	1930 - 1990 MHz	63.99	63.99	3.41	3.41	●
		37					1910 - 1930 MHz	1910 - 1930 MHz	67.24	67.24	2.18	2.18	●
		38			n38		2570 - 2620 MHz	2570 - 2620 MHz	44.50	44.50	4.57	4.57	●
		39	39		n39		1880 - 1920 MHz	1880 - 1920 MHz	64.12	64.12	1.99	1.99	●
		40	40		n40		2300 - 2400 MHz	2300 - 2400 MHz	62.70	62.70	2.22	2.22	●
		41	41	41	n41	n41	2496 - 2690 MHz	2496 - 2690 MHz	45.73	45.73	4.80	4.80	●
		42	42	42			3400 - 3600 MHz	3400 - 3600 MHz	43.76	43.76	5.29	5.29	●
		43	43	43			3600 - 3800 MHz	3600 - 3800 MHz	33.30	33.30	5.86	5.86	●
		44					703 - 803 MHz	703 - 803 MHz	48.15	48.15	4.04	4.04	●
		45					1447 - 1467 MHz	1447 - 1467 MHz	21.61	21.61	9.57	9.57	●
		46			n46		5150 - 5925 MHz	5150 - 5925 MHz	41.68	41.68	5.34	5.34	●
		47			n47		5855 - 5925 MHz	5855 - 5925 MHz	54.94	54.94	1.92	1.92	●
		48			n48		3550 - 3700 MHz	3550 - 3700 MHz	38.44	38.44	5.86	5.86	●
		49					3550 - 3700 MHz	3550 - 3700 MHz	38.44	38.44	5.86	5.86	●
		50			n50		1432 - 1517 MHz	1432 - 1517 MHz	21.24	21.24	9.63	9.63	●
		51			n51		1427 - 1432 MHz	1427 - 1432 MHz	21.49	21.49	9.34	9.34	●
		52					3300 - 3400 MHz	3300 - 3400 MHz	55.08	55.08	2.90	2.90	●

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		53			n53		2483.5 - 2495 MHz	2483.5 - 2495 MHz	50.93	50.93	3.32	3.32	●
		65		65	n65	n65	1920 - 2010 MHz	2110 - 2200 MHz	63.86	63.60	3.70	2.98	●
		66	66	66	n66	n66	1710 - 1780 MHz	2110 - 2200 MHz	58.08	63.60	4.99	2.98	●
		67			n67		N/A	738 - 758 MHz	N/A	47.84	N/A	3.74	●
		68					698 - 728 MHz	753 - 783 MHz	46.85	48.27	2.76	3.95	●
		69					N/A	2570 - 2620 MHz	N/A	44.50	N/A	4.57	●
		70		70	n70	n70	1695 - 1710 MHz	1995 - 2020 MHz	52.29	62.73	5.45	3.72	●
		71	71	71	n71		663 - 698 MHz	617 - 652 MHz	44.35	51.34	1.80	3.15	●
		72	72	72			451 - 456 MHz	461 - 466 MHz	34.20	36.70	7.41	7.61	●
		73	73	73			450 - 455 MHz	460 - 465 MHz	34.01	36.33	7.33	7.73	●
		74	74	74	n74		1427 - 1470 MHz	1475 - 1518 MHz	21.52	20.95	9.63	9.59	●
		75			n75		N/A	1432 - 1517 MHz	N/A	21.24	N/A	9.63	●
		76			n76		N/A	1427 - 1432 MHz	N/A	21.49	N/A	9.34	●
					n77		3300 - 4200 MHz	3300 - 4200 MHz	42.66	42.66	5.86	5.86	●
					n78		3300 - 3800 MHz	3300 - 3800 MHz	41.84	41.84	5.86	5.86	●
					n79		4400 - 5000 MHz	4400 - 5000 MHz	26.86	26.86	4.51	4.51	●
					n80		1710 - 1785 MHz	N/A	58.10	N/A	4.99	N/A	●
					n81		880 - 915 MHz	N/A	53.42	N/A	3.74	N/A	●
					n82		832 - 862 MHz	N/A	44.40	N/A	4.19	N/A	●
					n83		703 - 748 MHz	N/A	47.35	N/A	3.50	N/A	●
					n84		1920 - 1980 MHz	N/A	65.51	N/A	3.23	N/A	●
		85	85	85	n85		698 - 716 MHz	728 - 746 MHz	46.41	47.72	2.42	3.44	●
					n86		1710 - 1780 MHz	N/A	58.08	N/A	4.99	N/A	●
		87	87	87			410 - 415 MHz	420 - 425 MHz	32.69	31.70	4.85	5.85	●
		88	88	88			412 - 417 MHz	422 - 427 MHz	32.43	31.70	4.99	5.89	●

● Suitable band ● Adequate band in good signal conditions ● Likely to be unsuitable

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GSM (2G) Band	UMTS (3G) Band	E-UTRA (4G) Band	Cat M E-UTRA Band	Cat NB E-UTRA Band	NR (5G) Band	Cat NB NR (5G) Band	Uplink	Downlink	Average Upload Efficiency (%)	Average Download Efficiency (%)	Maximum Upload VSWR	Maximum Download VSWR	Use Indicator
					n89		824 - 849 MHz	N/A	45.53	N/A	4.19	N/A	🟠
					n90	n90	2496 - 2690 MHz	2496 - 2690 MHz	45.73	45.73	4.80	4.80	🟠
					n91		832 - 862 MHz	1427 - 1432 MHz	44.40	21.49	4.19	9.34	🔴
					n92		832 - 862 MHz	1432 - 1517 MHz	44.40	21.24	4.19	9.63	🔴
					n93		880 - 915 MHz	1427 - 1432 MHz	53.42	21.49	3.74	9.34	🟠
					n94		880 - 915 MHz	1432 - 1517 MHz	53.42	21.24	3.74	9.63	🟠
					n95		2010 - 2025 MHz	N/A	64.71	N/A	3.73	N/A	🟢
					n97		2300 - 2400 MHz	N/A	62.70	N/A	2.22	N/A	🟢
					n98		1880 - 1920 MHz	N/A	64.12	N/A	1.99	N/A	🟢
					n99		1626.5 - 1660.5 MHz	N/A	35.06	N/A	7.00	N/A	🔴
					n101		1900 - 1910 MHz	1900 - 1910 MHz	63.90	63.90	1.82	1.82	🟢
				103			787 - 788 MHz	757 - 758 MHz	49.37	47.95	3.90	3.74	🟠

🟢 Suitable band 🟠 Adequate band in good signal conditions 🔴 Likely to be unsuitable

NOTE: For each frequency band, Siretta provides a traffic light indication to show the suitability of the antenna for use at that frequency band. Determination of exactly what makes an antenna good or bad at any frequency is subjective.

The view presented is that of Siretta's engineering team having taken into account the efficiency and VSWR measurements. The end user is advised to use their own criteria and/or testing to confirm suitability.

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ISM Standards Frequency Support

Application	Frequency Range	Efficiency (%)	Maximum VSWR	Peak Gain from highest direction (dBi)	Use Indicator
ISM 433 MHz	433.05 - 434.79 MHz	31.70	6.00	0.268	🔴
ISM 868 MHz	863 - 870 MHz	45.47	3.97	4.215	🟠
ISM 915 MHz	902 - 928 MHz	56.32	3.38	5.96	🟢
ISM 2.4 GHz	2400 - 2500 MHz	52.42	3.39	0.92	🟢
Wi-Fi 2.4G	2401 - 2483 MHz	52.55	3.19	0.906	🟢
Wi-Fi 2.4G (USA)	2401 - 2473 MHz	53.01	3.05	0.906	🟢
Wi-Fi 2.4G (Japan)	2401 - 2495 MHz	52.34	3.32	0.906	🟢
Wi-Fi 5G (all channels)	5150 - 5990 MHz	42.27	5.34	4.66	🔴
Wi-Fi 5G (Ch 32-48)	5150 - 5250 MHz	39.00	4.25	3.22	🟠
Wi-Fi 5G (Ch 32-64)	5150 - 5330 MHz	37.09	5.29	3.22	🔴
Wi-Fi 5G (Ch 32-161)	5150 - 5815 MHz	39.42	5.34	4.18	🔴
Wi-Fi 5G (Ch 32-173)	5150 - 5875 MHz	40.77	5.34	4.66	🔴
ISM 5.8 GHz	5725 - 5875 MHz	52.24	2.02	4.66	🟢

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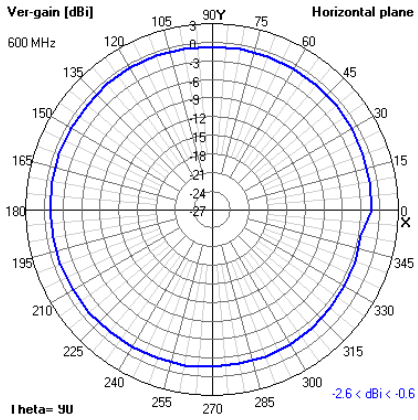
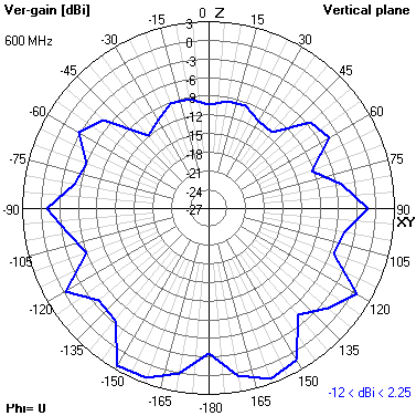
2D Radiation Plots

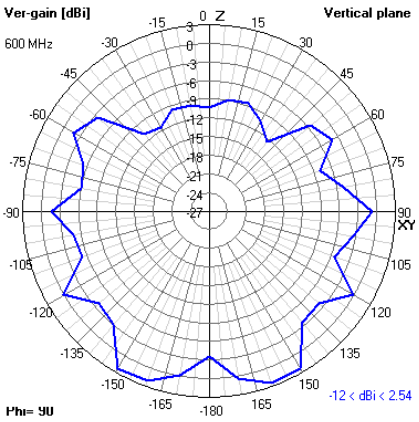
600 MHz XY



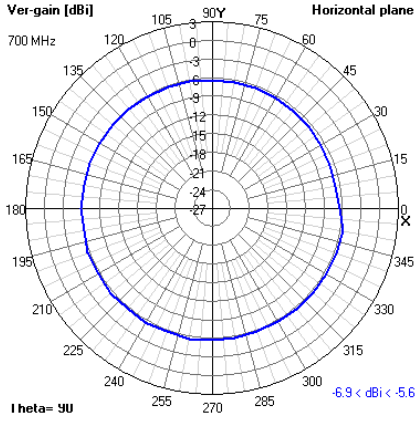
XZ



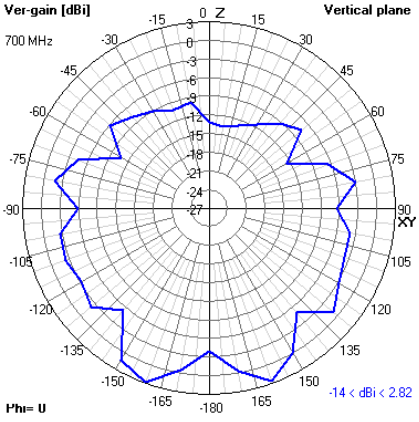
YZ



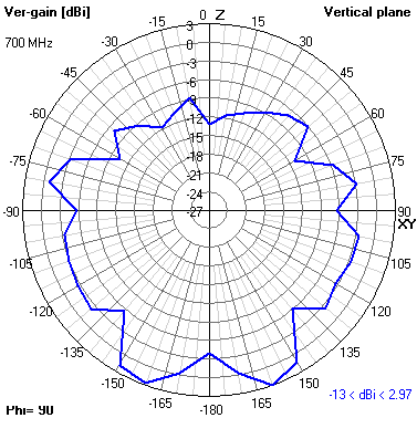
700 MHz XY



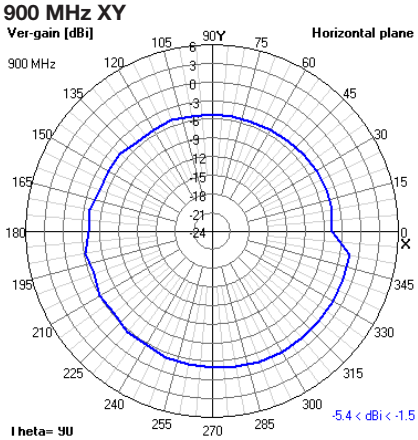
XZ



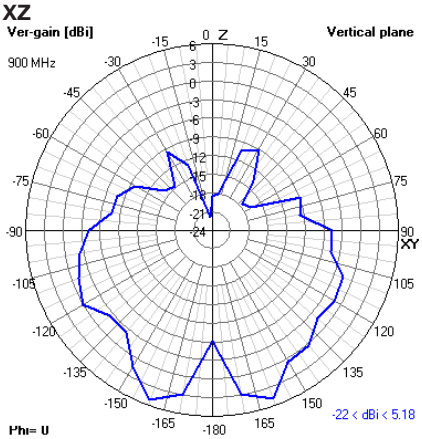
YZ



900 MHz XY



XZ



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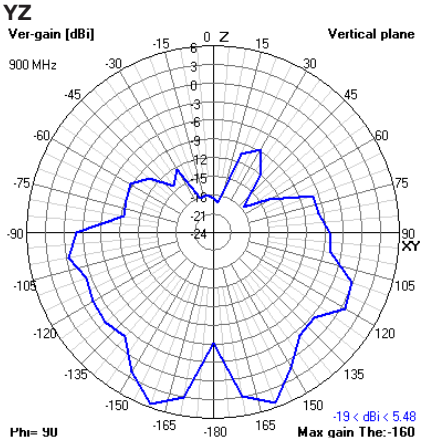

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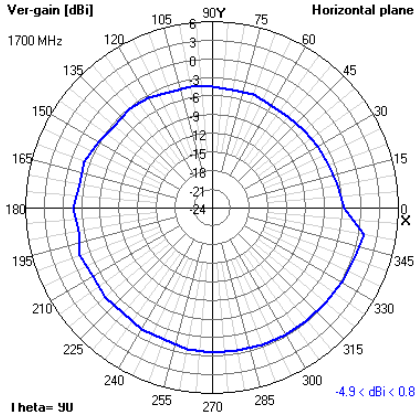
Delta 26

5G/4G/Bluetooth/LoRa 200mm Hinged Terminal Mount Monopole Antenna

2D Radiation Plots

1700 MHz XY



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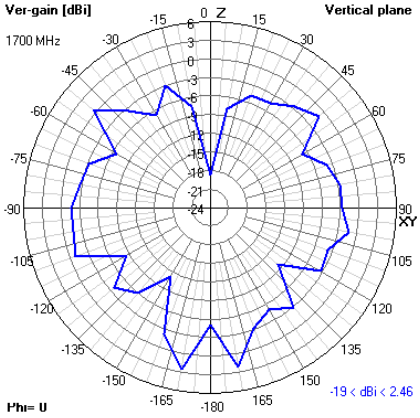

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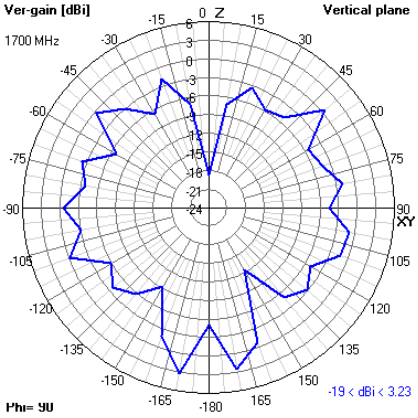
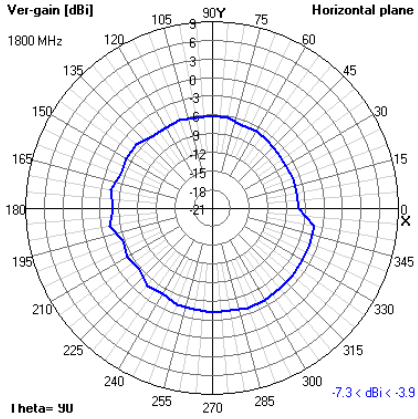


1800 MHz XY



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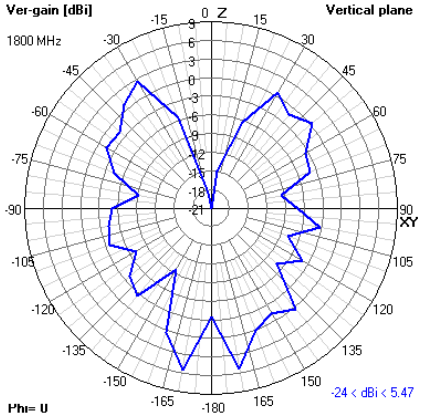

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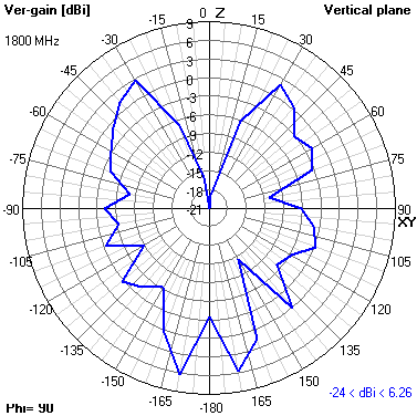
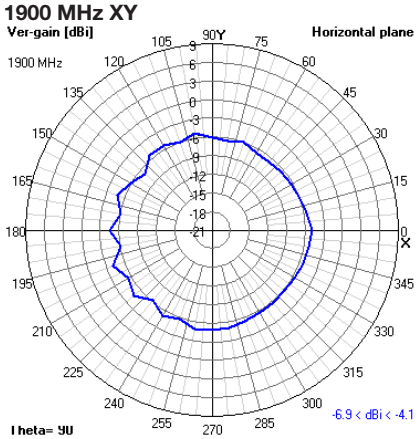


1900 MHz XY



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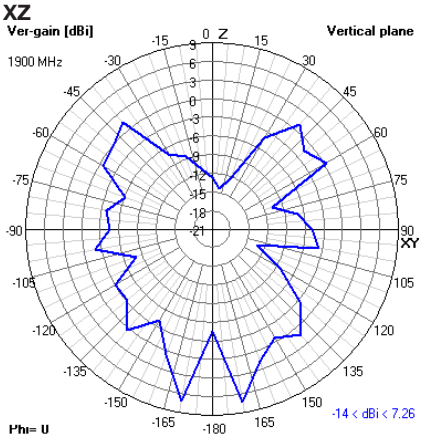

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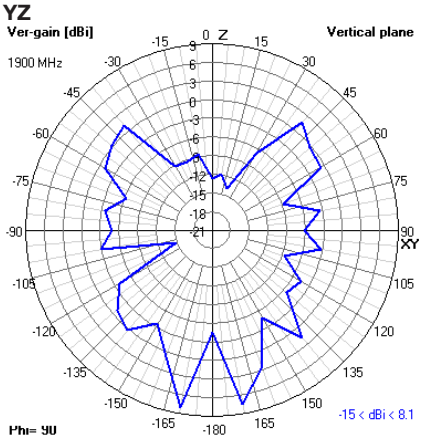

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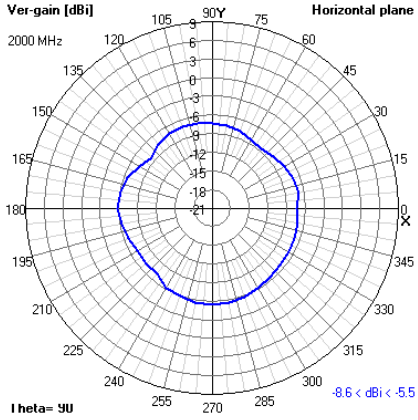
5G/4G/Bluetooth/LoRa 200mm Hinged Terminal Mount Monopole Antenna

2D Radiation Plots

2000 MHz XY



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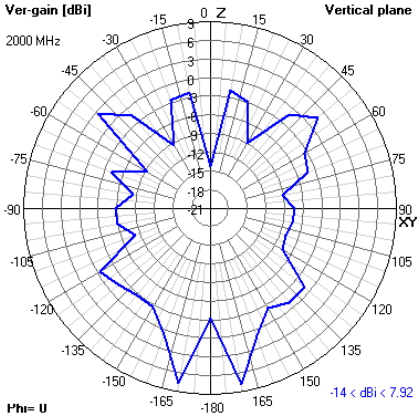

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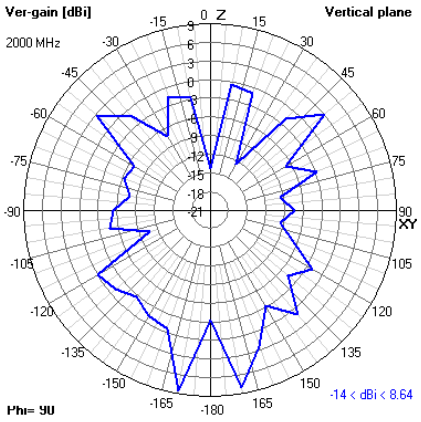
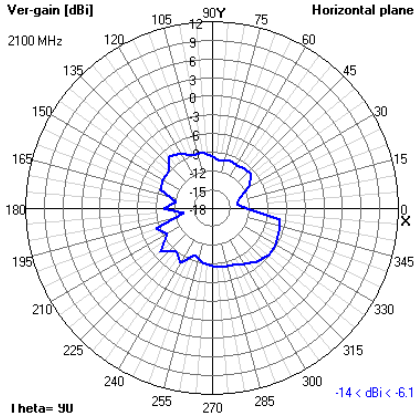


2100 MHz XY



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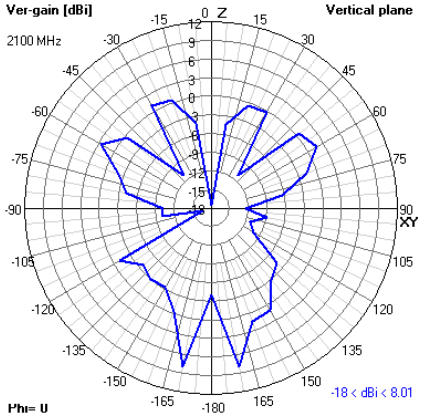

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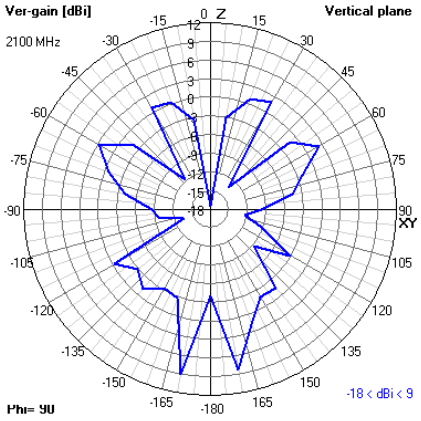
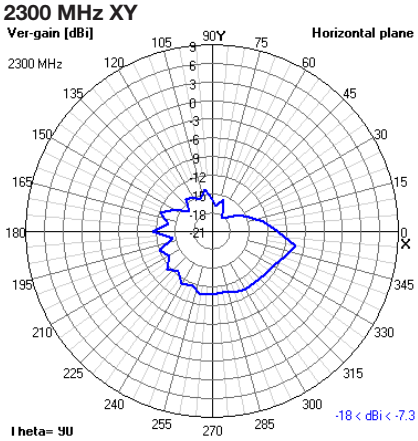


2300 MHz XY



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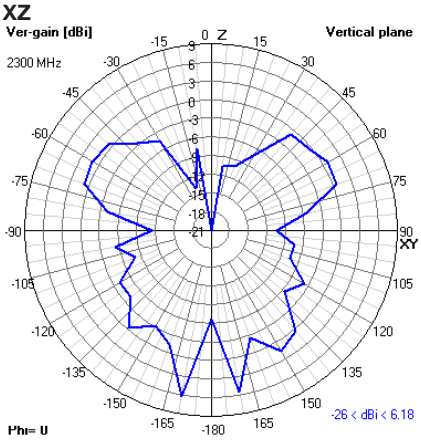

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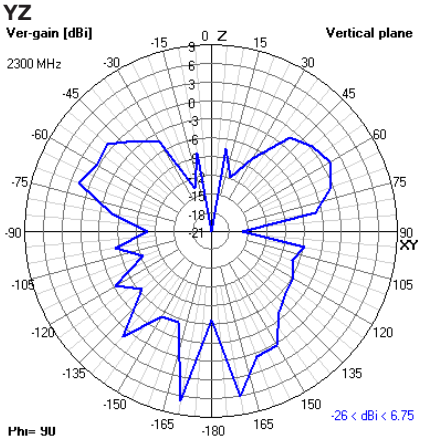

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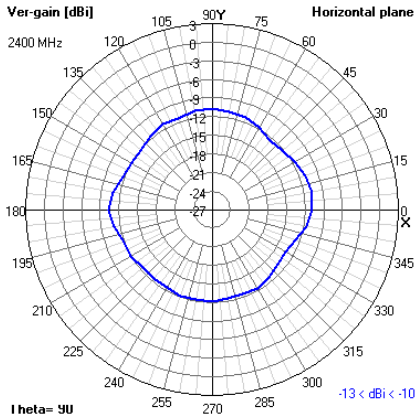
2D Radiation Plots

2400 MHz XY



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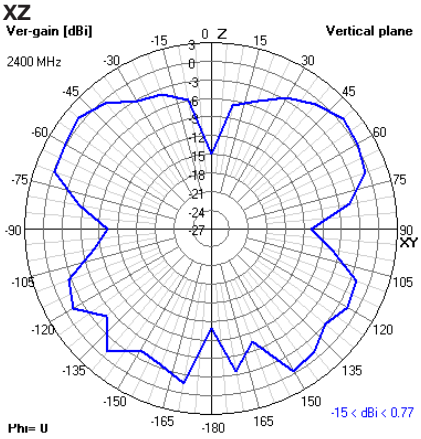

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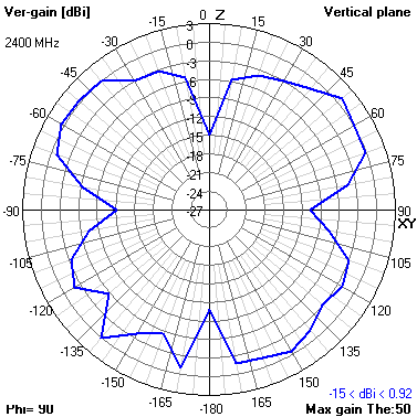
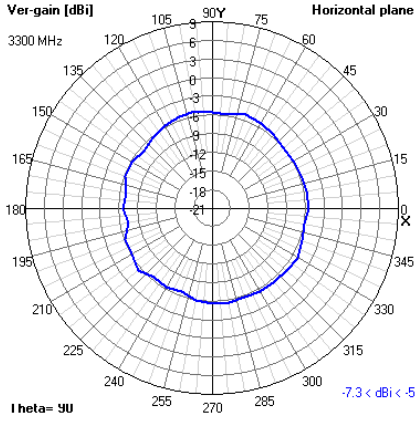


3300 MHz XY



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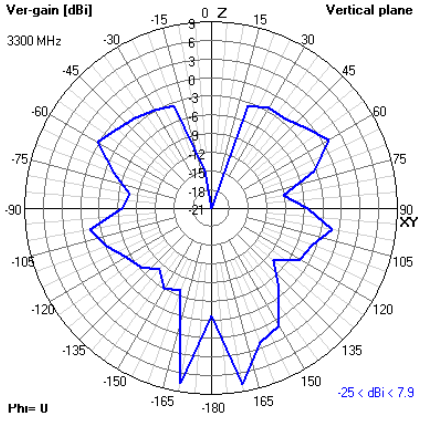

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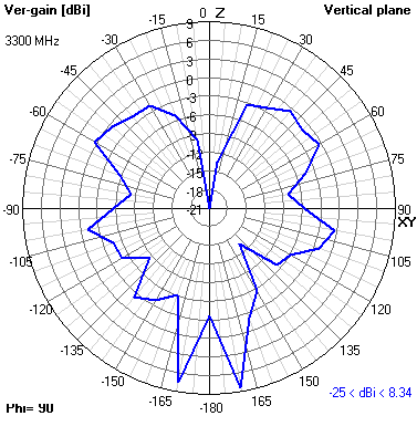
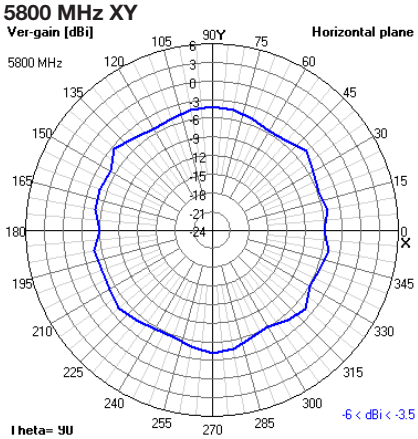


5800 MHz XY



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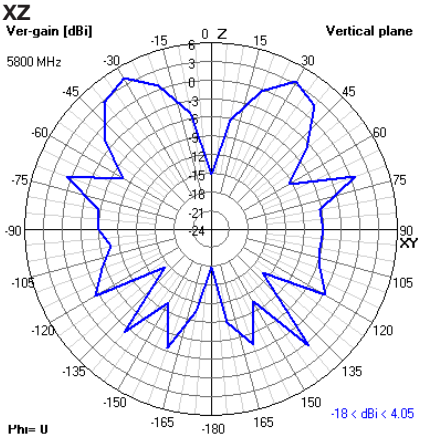

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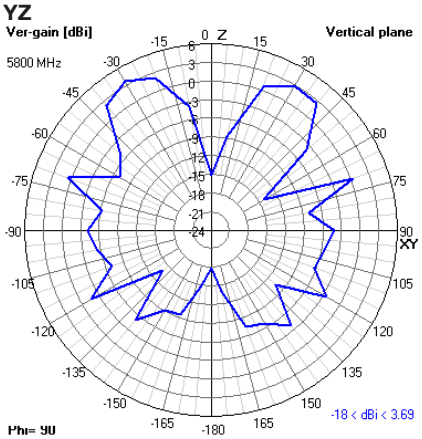

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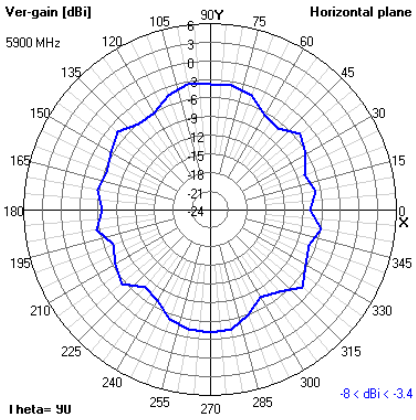
5G/4G/Bluetooth/LoRa 200mm Hinged Terminal Mount Monopole Antenna

2D Radiation Plots

5900 MHz XY



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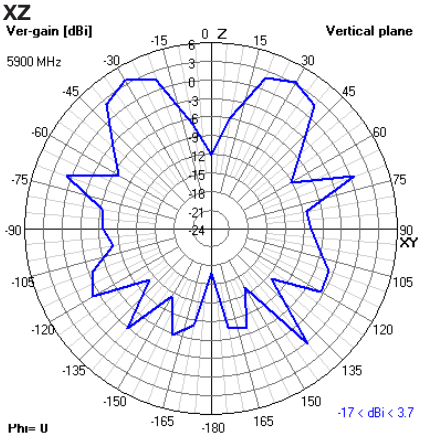

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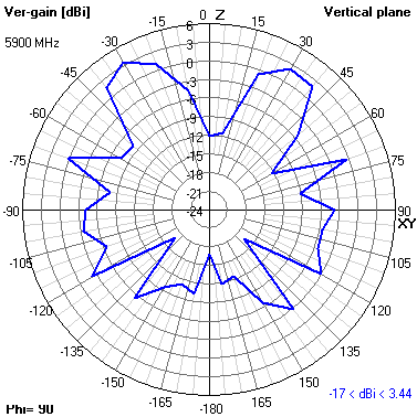
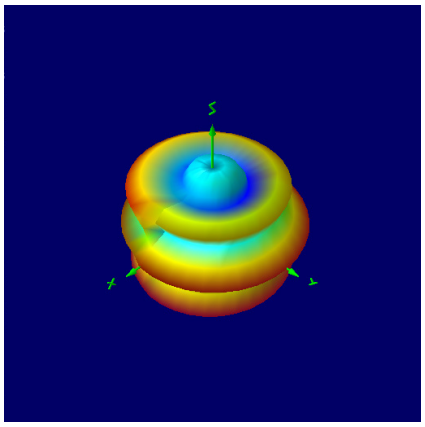


Delta 26

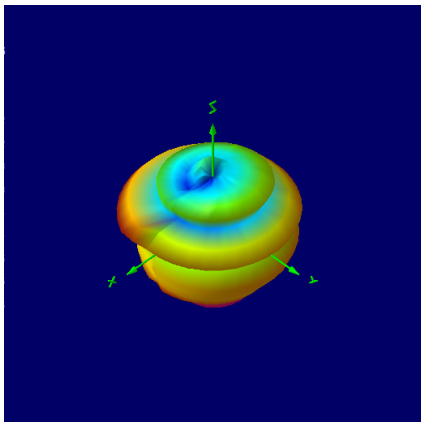
5G/4G/Bluetooth/LoRa 200mm Hinged Terminal Mount Monopole Antenna

3D Radiation Plots

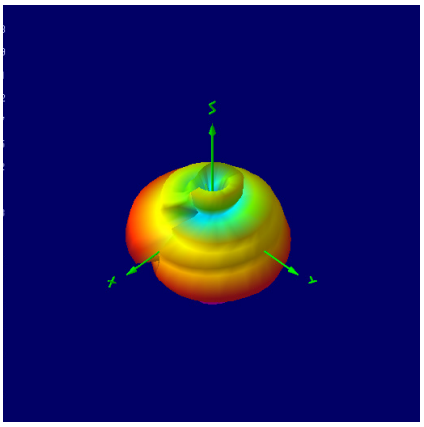
600 MHz



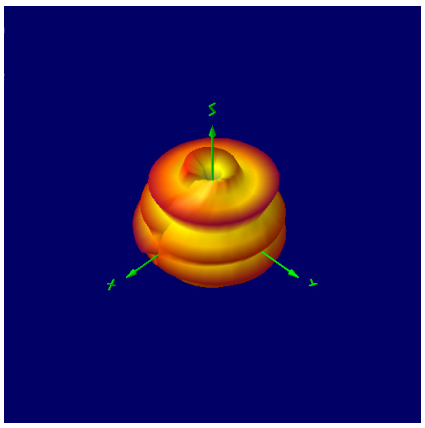
700 MHz



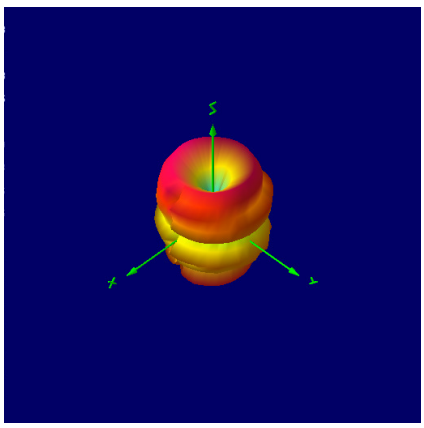
900 MHz



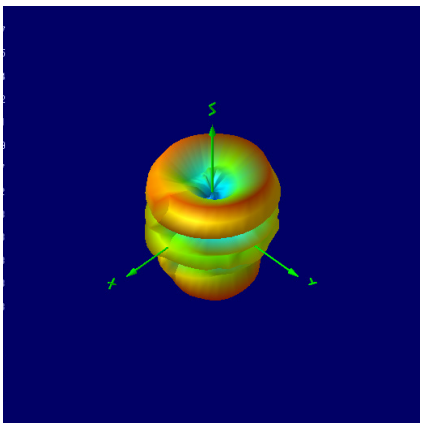
1700 MHz



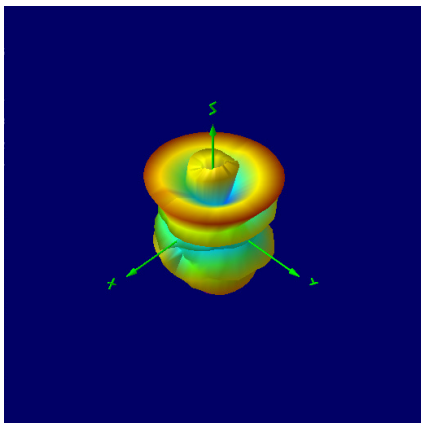
1800 MHz



1900 MHz



2000 MHz



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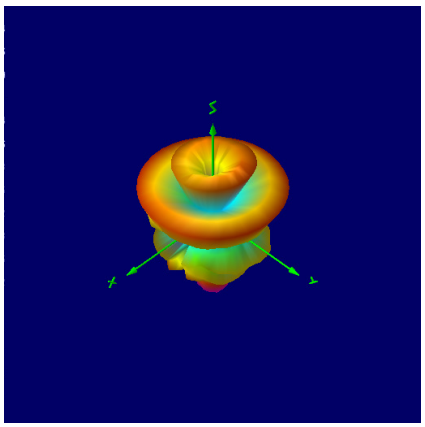
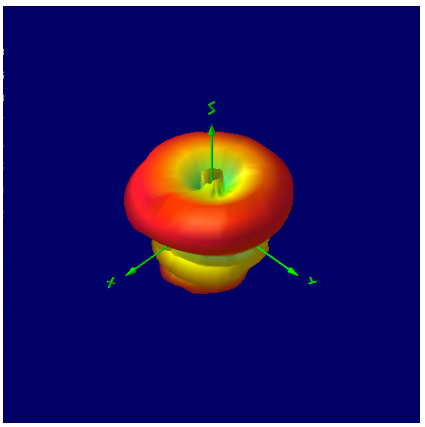


2300 MHz

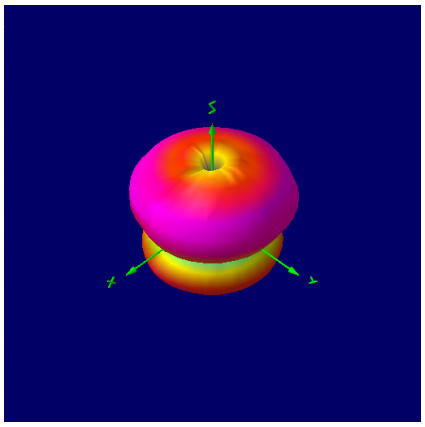


Delta 26

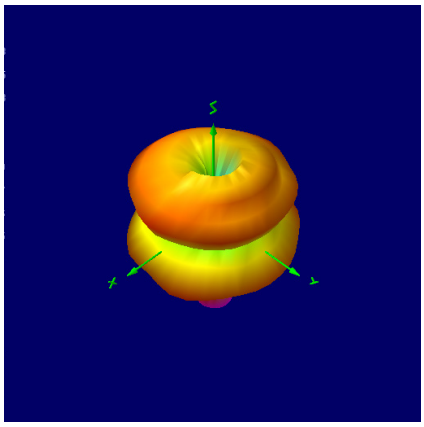
5G/4G/Bluetooth/LoRa 200mm Hinged Terminal Mount Monopole Antenna

3D Radiation Plots

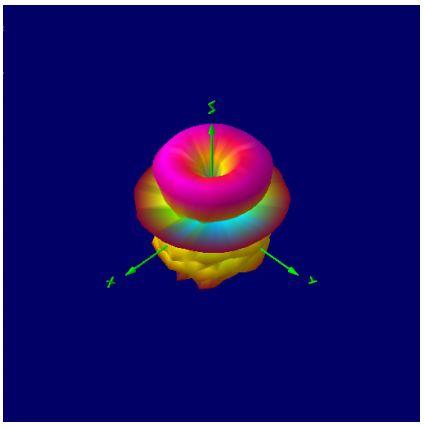
2400 MHz



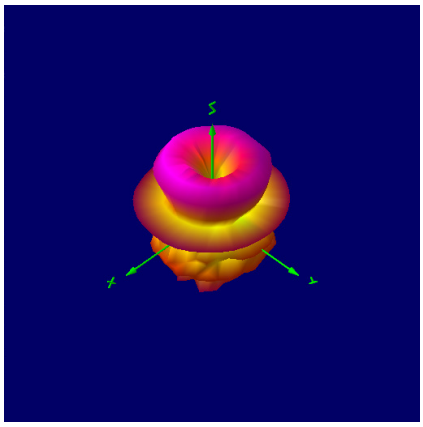
3300 MHz



5800 MHz



5900 MHz



NOTE: All 3D radiation plots are shown with Theta = 45 and Phi = 45.

Ordering Details:

Part Number	Description
DELTA26/X/SMAM/S/S/19	5G/4G/Bluetooth/LoRa 200mm Hinged Terminal Mount Monopole Antenna SMA Male

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