



Blade

Part No: TD.66.6H31

Description:

5G/4G 600-6000MHz Connector Mount Antenna With N-Type Male Connector

Features:

600-6000MHz Wideband 5G/4G Cellular Antenna Fantastic Efficiency Across all Bands Robust External Antenna for exterior mounting IP67 Rated Waterproof, suitable for outdoor applications Omnidirectional Gain Patterns for Optimum Coverage Connector: N-Type Male Dimensions: 228 * Ø22.8 mm RoHS and REACH Compliant

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1.	Introduction	3
2.	Specifications	4
3.	Antenna Characteristics	6
4.	Radiation Patterns	9
5.	Mechanical Drawing	20
6.	Packaging	21
	Changelog	22

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1. Introduction



The Taoglas TD.66 is a robust antenna designed to cover all global 5G/4G frequencies between 600MHz and 6GHz. The TD.66 uses a robust PC/ABS enclosure along with an IP67 rating, which is ideal for outdoor applications. The TD.66 is supplied with an N-Type male connector meaning can be directly installed on gateways and routers which come with N-Type connectors. The TD.66 performs excellently at 5G bands with efficiencies above 50% across the entire 5G/4G spectrum while also maintaining stable radiation patterns.

The Blade TD.66 has been evolved from the highly successful TD.95 and is part of the ever-growing portfolio of 5G antennas offered by Taoglas.

Typical Applications include:

- Gateways and Routers
- Cameras and Security
- Public Safety
- Point of Sales Terminals
- Smart Home Automation
- Robotics / Autonomous

The TD.66 comes with a N-Type Male connector as standard and this can be customized subject to MOQ and NRE, contact your regional Taoglas customer support team for more information.



2.

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/ 5	peci	tica	tions

Electrical								
Band	Frequency (MHz)	Efficiency (%)	Average Gain (dB)	Peak Gain (dBi)	Impedance	Max Input Power	Polarization	Radiation Pattern
5GNR/4G Band 71	617~698	78	-1.04	1.8				0mni-
4G/3G Band 12,13,14,17,28,29	698~824	51	-2.9	1.6				
4G/3G/NB-IoT/Cat M Band 5,8,18,19,20,26,27	824~960	49	-3.09	2.6				
5GNR/4G Band 21,32,74,75,76	1427~1518	79	-1.04	3.9				
4G/3G Band 1,2,3,4,9,23,25,35,39,66	1710~2200	70	-1.54	2.5	50 Ω 10W	Linear	Directional	
4G/3G Band 7,30,38,40,41	2300~2690	57	-2.41	3.9				
5GNR/4G Band 22,42,48,77,78,79	3300~5000	75	-1.21	4.4				
LTE5200/ Wi-Fi 5800	5150~5925	66	-1.79	5.4				

*Tested in free space

Mechanical				
Dimensions	229 x 23 mm			
Weight	70g			
Plastic Material	PC/ABS			
Connector	N-Type Male			
Environmental				
Temperature Range	-40°C to 85°C			



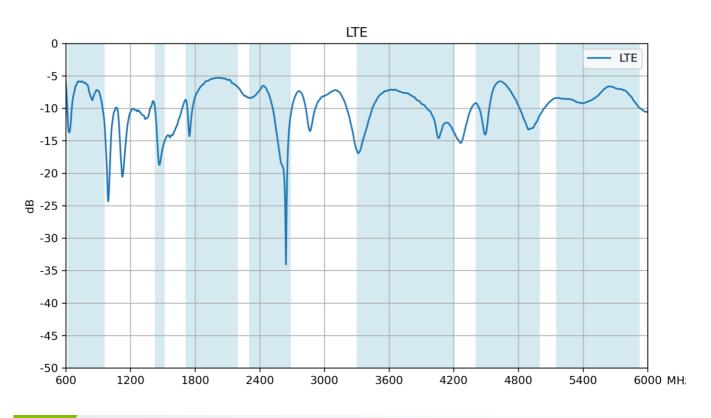
5G/4G Bands				
Band Number	5GNR / FR1 / LTE / LTE-Advanced / WCDMA / HSPA / HSPA+ / TD-SCDMA			
	Uplink	Downlink	Covered	
1	UL: 1920 to 1980	DL: 2110 to 2170	\checkmark	
2	UL: 1850 to 1910	DL: 1930 to 1990	\checkmark	
3	UL: 1710 to 1785	DL: 1805 to 1880	\checkmark	
4	UL: 1710 to 1755	DL: 2110 to 2155	\checkmark	
5	UL: 824 to 849	DL: 869 to 894	\checkmark	
7	UL: 2500 to 2570	DL:2620 to 2690	\checkmark	
8	UL: 880 to 915	DL: 925 to 960	\checkmark	
9	UL: 1749.9 to 1784.9	DL: 1844.9 to 1879.9	\checkmark	
11	UL: 1427.9 to 1447.9	DL: 1475.9 to 1495.9	\checkmark	
12	UL: 699 to 716	DL: 729 to 746	\checkmark	
13	UL: 777 to 787	DL: 746 to 756	\checkmark	
14	UL: 788 to 798	DL: 758 to 768	\checkmark	
17	UL: 704 to 716	DL: 734 to 746	\checkmark	
18	UL: 815 to 830	DL: 860 to 875	\checkmark	
19	UL: 830 to 845	DL: 875 to 890	\checkmark	
20	UL: 832 to 862	DL: 791 to 821	\checkmark	
21	UL: 1447.9 to 1462.9	DL: 1495.9 to 1510.9	\checkmark	
22	UL: 3410 to 3490	DL: 3510 to 3590	\checkmark	
23	UL:2000 to 2020	DL: 2180 to 2200	\checkmark	
24	UL:1625.5 to 1660.5	DL: 1525 to 1559	\checkmark	
25	UL: 1850 to 1915	DL: 1930 to 1995	\checkmark	
26	UL: 814 to 849	DL: 859 to 894	√	
27	UL: 807 to 824	DL: 852 to 869	√	
28	UL: 703 to 748	DL: 758 to 803	√	
29	UL: -	DL: 717 to 728	1	
30	UL: 2305 to 2315	DL: 2350 to 2360	√	
31	UL: 452.5 to 457.5	DL: 462.5 to 467.5	×	
32	UL: -	DL: 1452 - 1496	√	
35	18	1		
38	25	✓		
39		380 to 1920	1	
40		300 to 2400	1	
41		196 to 2690	✓	
42		100 to 3600	1	
43		500 to 3800	1	
48		50 to 3700	✓ ✓	
66	UL: 1710-1780	DL: 2110-2200		
71		517 to 698	\checkmark	
74/75/76		127 to 1518	 ✓ ✓ 	
77				
78	3300 to 3800 ✓ 4400 to 5000 ✓			
79	44	\checkmark		



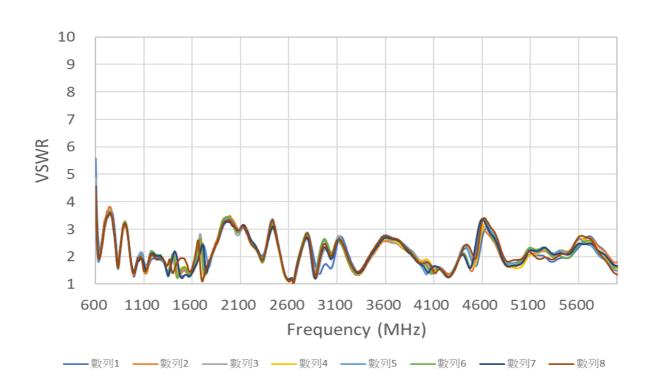




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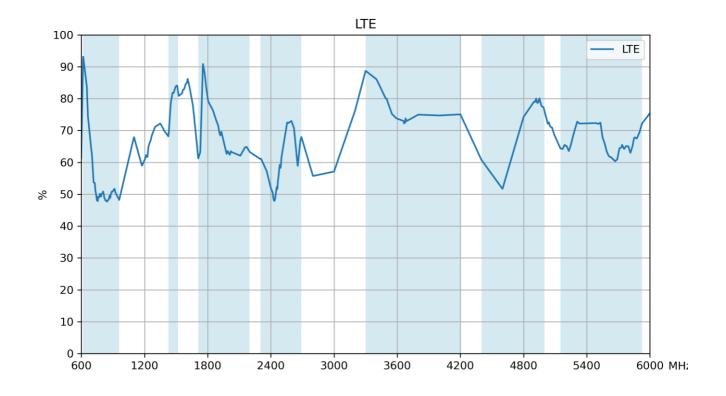




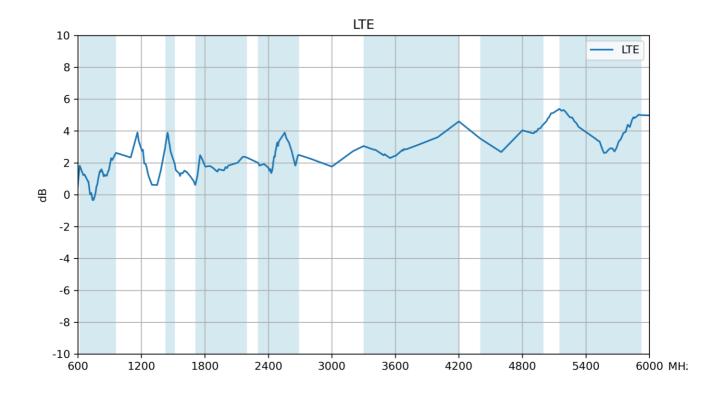




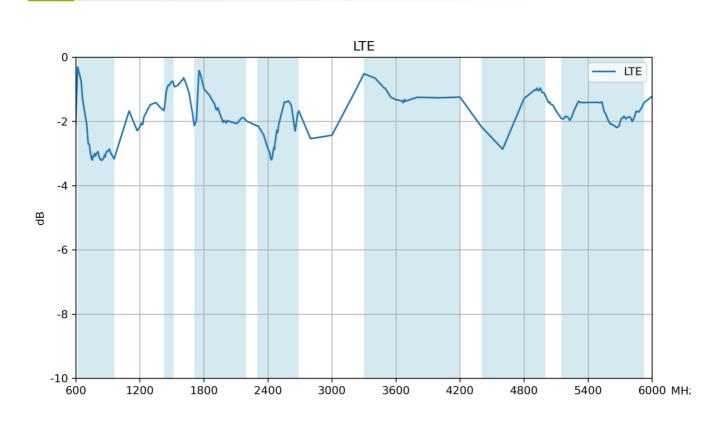
3.3 Efficiency



3.4 Peak Gain







3.5

Average Gain



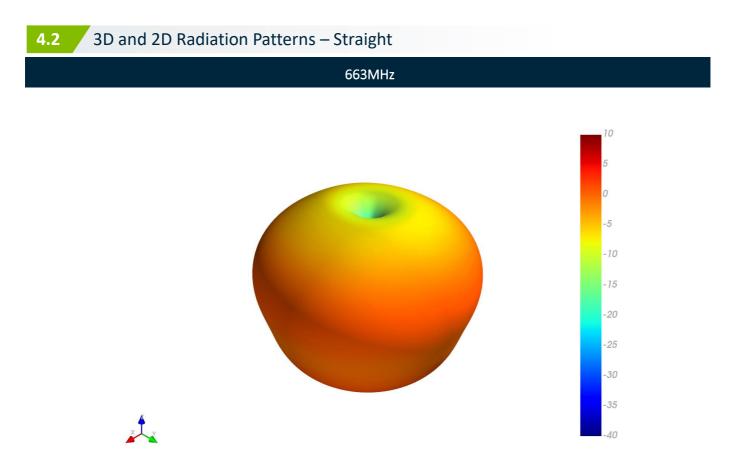
Radiation Patterns

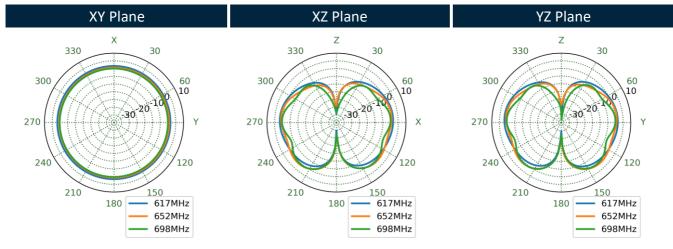


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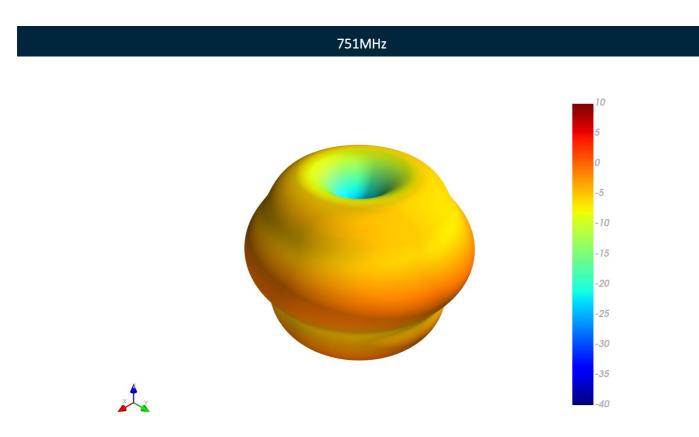


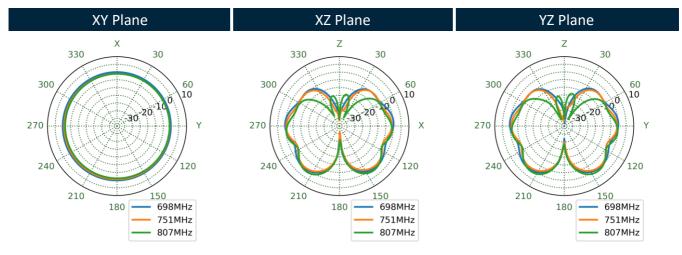




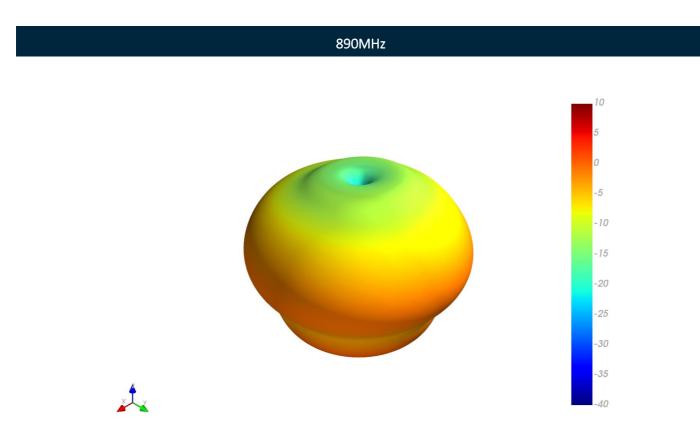


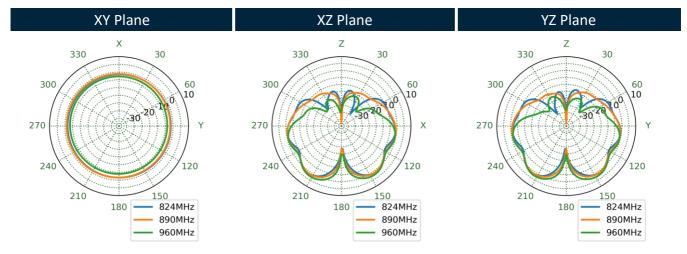




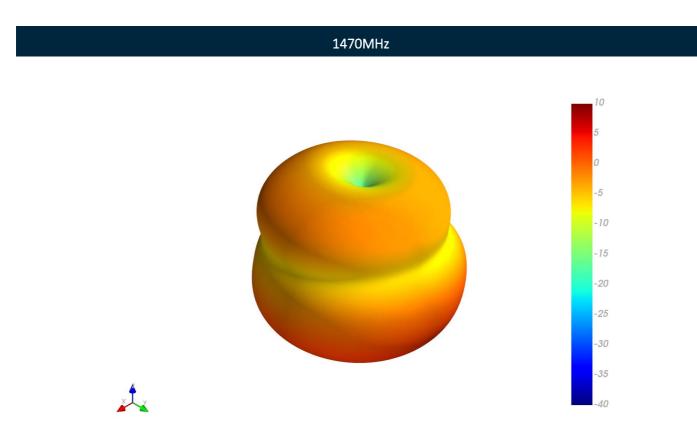


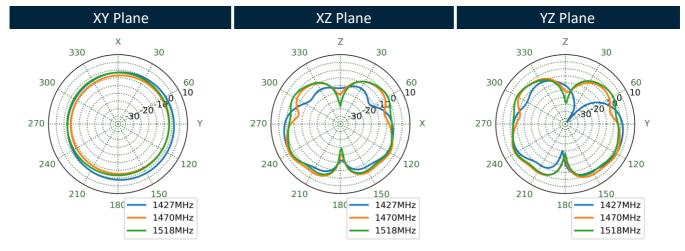




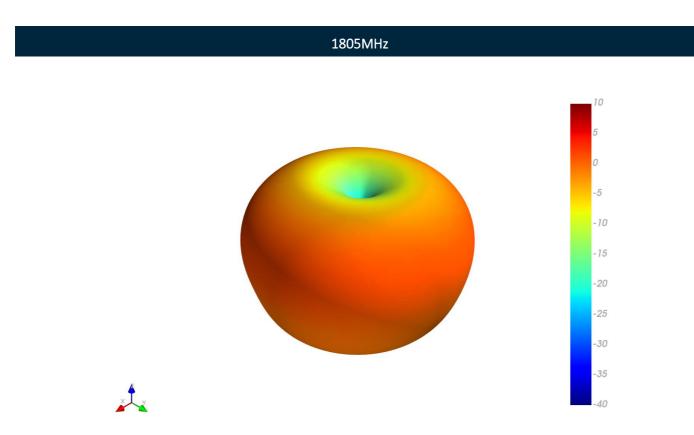


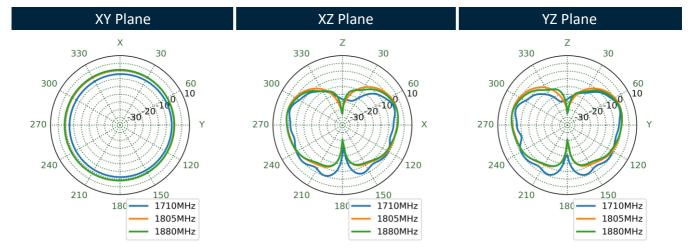






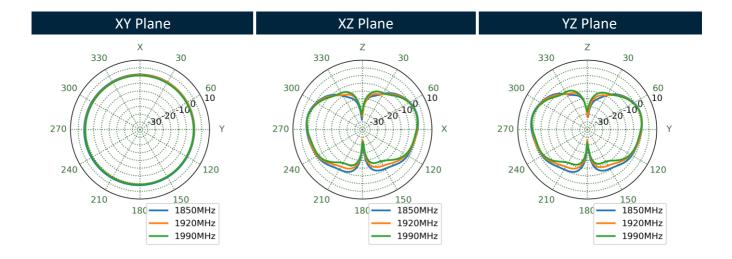






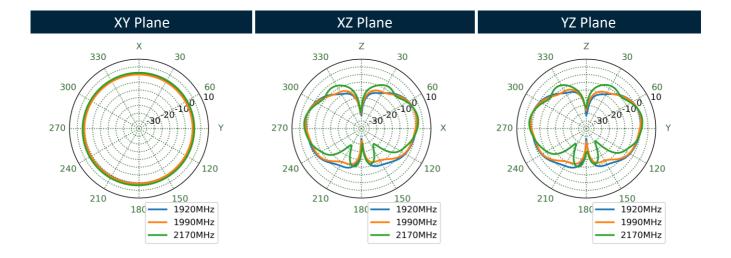


1920HHz



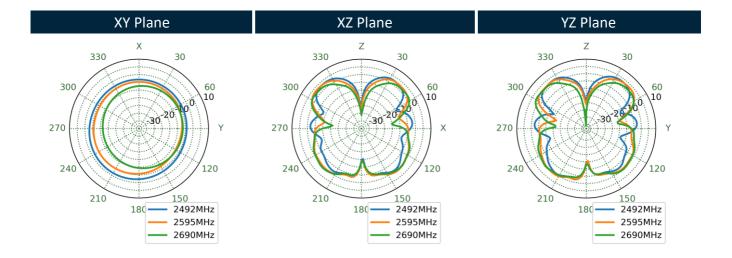


1990MHz



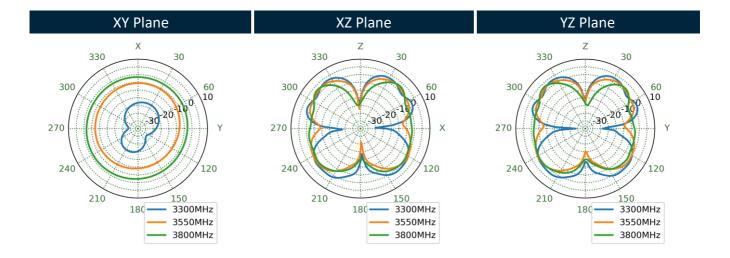


2595MHz

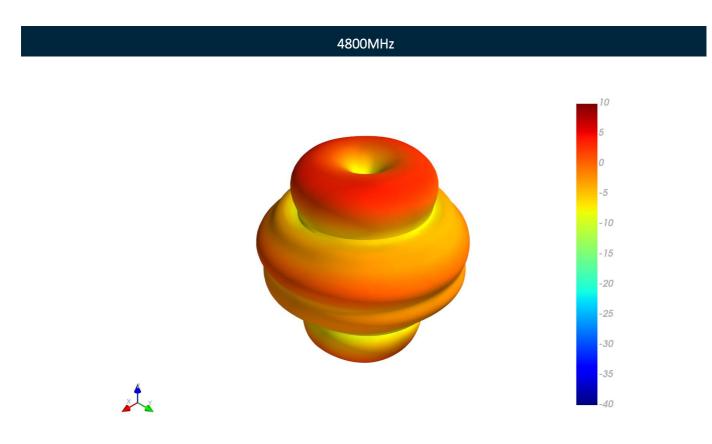


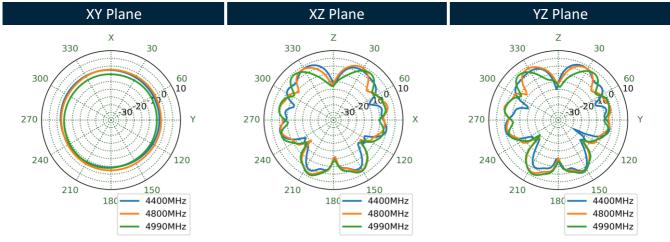


3550MHz

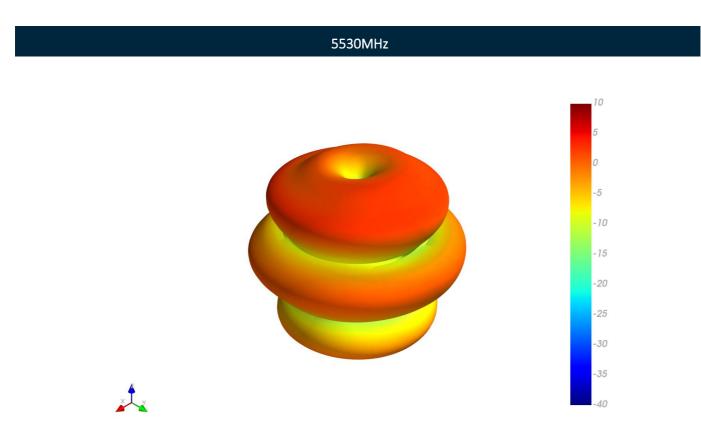


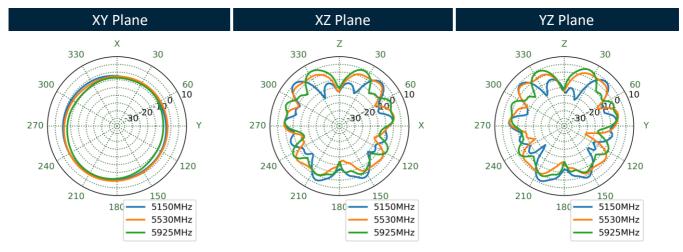




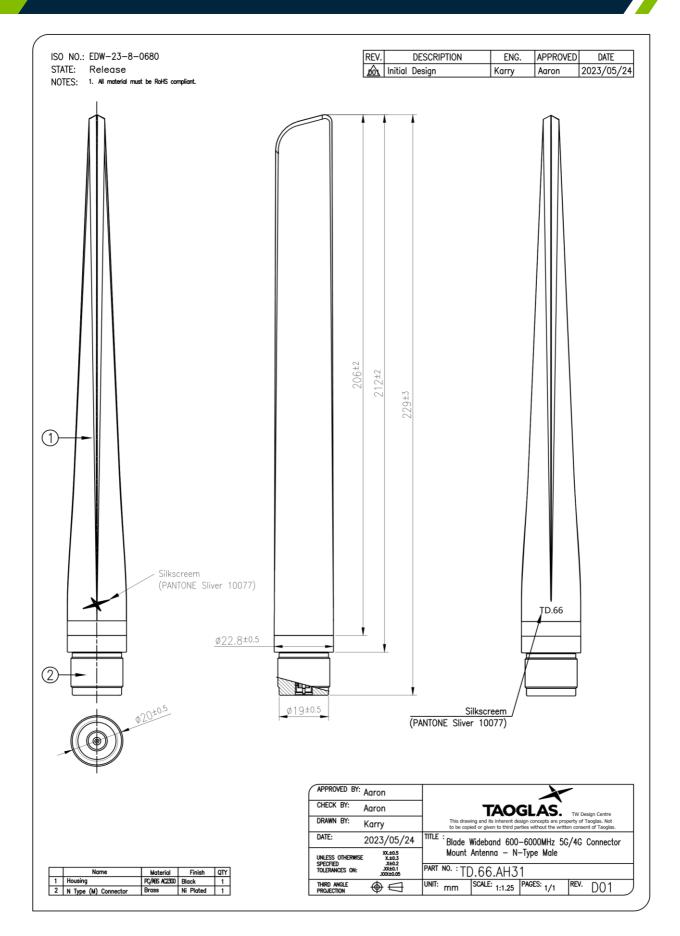












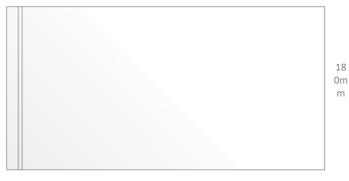


8. Packaging

1pc TD.66.6H31 per PE Bag Bag Dimension: 200*100mm Weight: 70g

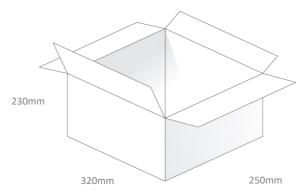


20pcs TD.66.6H31 per Large PE Bag Bag Dimensions: 180*265mm Weight: 1.4Kg



265mm

200pcs TD.66.6H31 per Carton Dimensions: 320*250*230mm Weight: 14Kg





Changelog for the datasheet				
SPE-23-8-234 – TG.66.A113				
Revision: A (Origina	l First Release)			
Date:	2021-07-07			
Notes:				
Author:	Jack Conroy			

Previous Revisions





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