

DONGGUAN HUANGJIE COMMUNICATION TECHNOLOGY CO., LTD.



1.88-1.93G antenna

Gel antenn3D1805BK06-002

- trait:
- The Outward Appearance Fine
 - all weather operations
 - Optimized size
 - Medium gain、 low standing wave

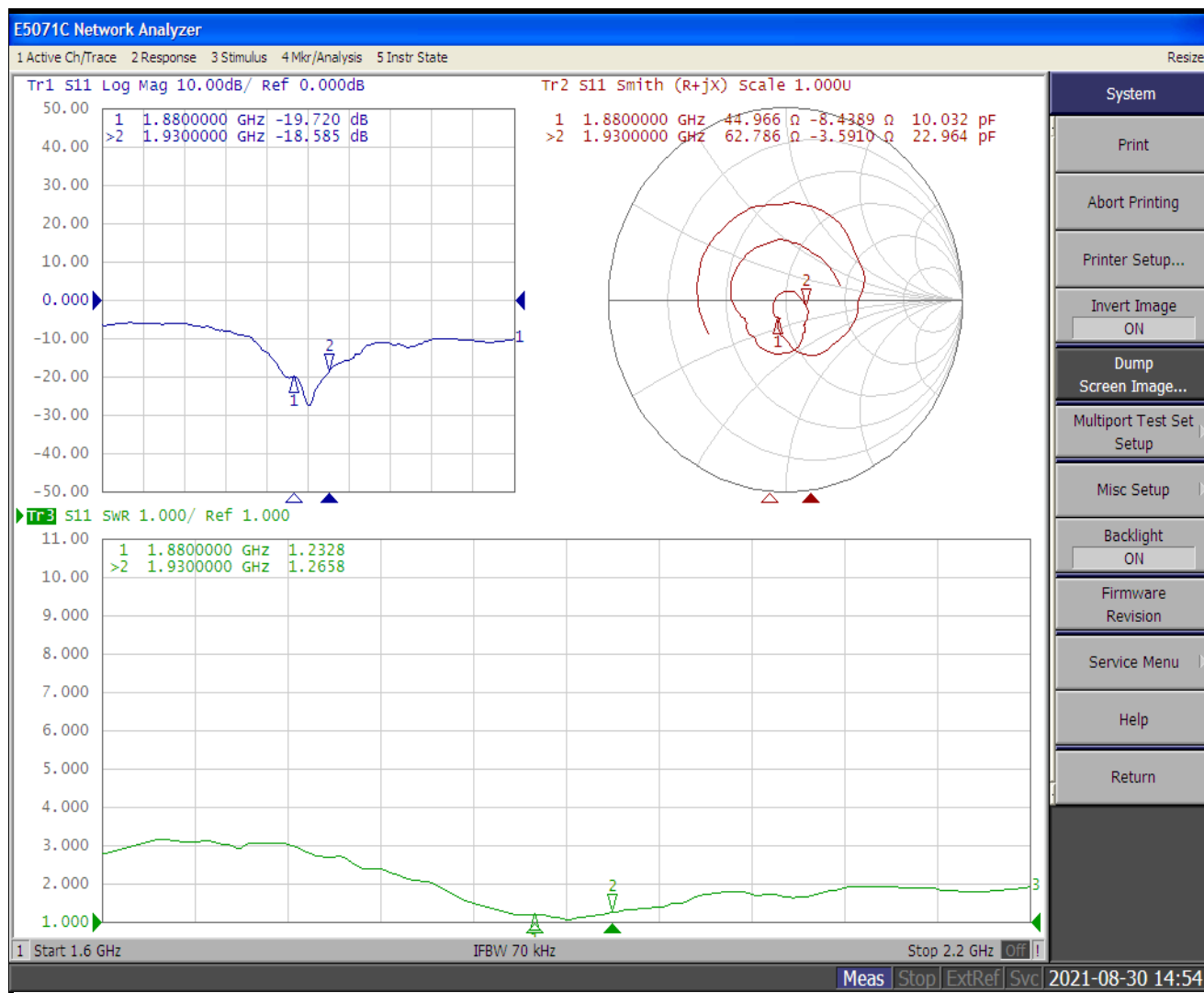
Model NO	3D1805BK06-002
Electric Spec	
Frequency rang-MHz	1.88-1.93G
Bandwidth -MHz	See waveform diagram for details
Gain -dBi	4.33 DBI MAX
VSWR	1.88-1.93G ≤2.0
Impedance-Ω	50
Connector model	TNC PLUG FEMALE Or user specifiedTNC PLUG or others
CABLE Spec	RG178 Cable Or user specified RG178 Cable or others
Mechanical Specification	
Size -mm	205*13
Antenna weight-kg	/
Working Temperature -° c	-40~60
Radome color	black

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Antenna Electrical Characteristic Test Report

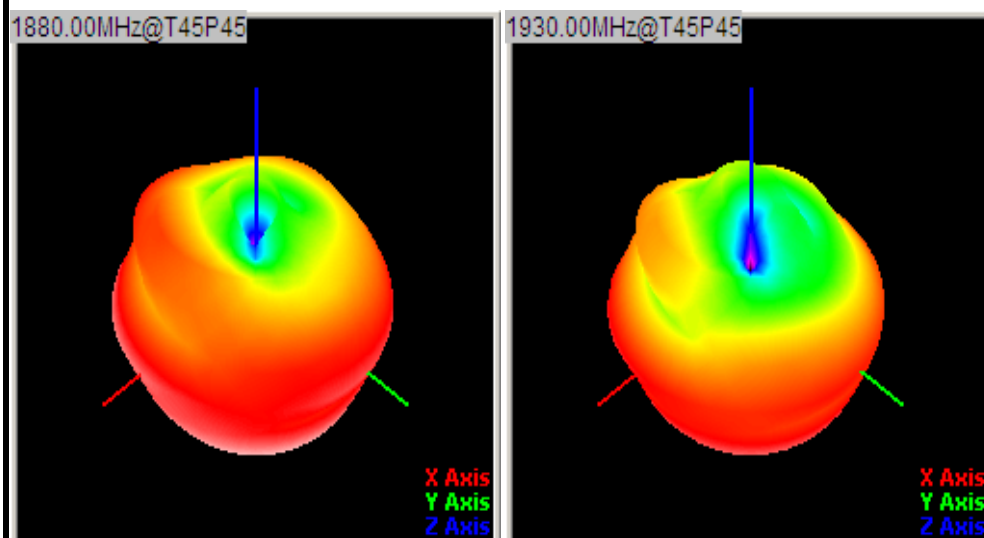
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Part Number:	3D1805BK06-002	Item	Spec	Judge
Part Name:	G07 Black, Copper tube + Copper tube, RG178+TNC Male and Female needle (1.88~1.93G)	VSWR	≤ 2.0	pass
Test Equipment	Network analyzer/ microwave anechoic room	Characteristic impedance	50 Ω	pass
Q uantity	5pcs	Gain	0~3dBi	pass
Test Date	2021/8/30			



FEITUKEJI

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	1850.0	1860.0	1870.0	1880.0	1890.0	1900.0	1910.0	1920.0	1930.0	1940.0	1950.0
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-0.97	-0.79	-0.94	-0.90	-0.87	-0.96	-1.06	-0.93	-0.97	-0.81	-0.85
Peak EIRP (dBm)	2.77	2.98	2.91	3.11	3.42	3.70	3.94	4.27	4.33	3.55	3.55
Directivity (dBi)	3.75	3.77	3.84	4.01	4.29	4.66	5.00	5.20	5.30	5.36	5.40
Efficiency (dB)	-0.97	-0.79	-0.94	-0.90	-0.87	-0.96	-1.06	-0.93	-0.97	-0.81	-0.85
Efficiency (%)	79.90	83.50	80.60	81.30	81.80	80.20	78.40	80.70	80.00	83.10	82.20
Gain (dBi)	2.77	2.98	2.91	3.11	3.42	3.70	3.94	4.27	4.33	3.55	3.55
NHPRP $\pm\pi/4$ (dBm)	-2.10	-1.92	-2.08	-2.08	-2.11	-2.28	-2.46	-2.38	-2.45	-2.29	-2.35
NHPRP $\pm\pi/6$ (dBm)	-3.51	-3.32	-3.48	-3.49	-3.54	-3.74	-3.95	-3.91	-3.98	-3.81	-3.86
NHPRP $\pm\pi/8$ (dBm)	-4.56	-4.37	-4.54	-4.55	-4.62	-4.83	-5.05	-5.02	-5.09	-4.92	-4.94
Upper Hem. PRP (dBm)	-6.83	-6.68	-6.83	-6.81	-6.89	-7.22	-7.66	-7.88	-8.17	-8.10	-8.09
Lower Hem. PRP (dBm)	-2.28	-2.08	-2.23	-2.18	-2.12	-2.13	-2.13	-1.91	-1.89	-1.70	-1.76
Upper Hem. PRP (%)	20.73	21.48	20.74	20.86	20.47	18.96	17.12	16.28	15.23	15.49	15.52
Lower Hem. PRP (%)	59.18	61.98	59.87	60.48	61.34	61.24	61.25	64.46	64.79	67.58	66.69



Checked by

JIANG NENG GUANG

Tested by

CHU HUAN