

Project No: SG201807090700/2

Date: 2021.07.03

Rev: A1

Antenna SPEC

Customer: See	eed		
Part No:			
B&T P/N: <u>AC</u>	G-010518-1014		
Spec: 915MHz	external black 195 f	olding antenna -SMA-J	
•		<u> </u>	
Sealed by corpo	ration:		
compilation	verify	approval	

Sealed by customer:

Huangfeihui

check	verify	approval

He Xing

Contact information of B&T:

	Í	
Contact person for sales:	MB:18576042661	E-mail: longmg@tech-now.com
Longmingguo	MB.10070042001	E-man: Tonging@tech_now.com
Contact person for technical:	MD-15015242729	Fuel how Otach many same
He Xing	MB:15915343738	E-mail: hex@tech-now.com
Contact person for Quality:	MD-15010072072	F
Onyangdexiang	MB:15819972972	E-mail: ouyangdx@tech-now.com

Form no.: B&T- qr-en-002 version: B3

Yilinyu



Document making / revising / abolishing resume

Edition	Date	Formulate/Revised content	Formulate	approval
A0	2018.08.22	First formulation	Tanlilin	He Xing/Liwei
A1-0325	2021.03.25	Add direction diagram	Huangfeihui	He Xing/Yilinyu
A1	2021.07.03	Add connector description	Huangfeihui	He Xing/Yilinyu

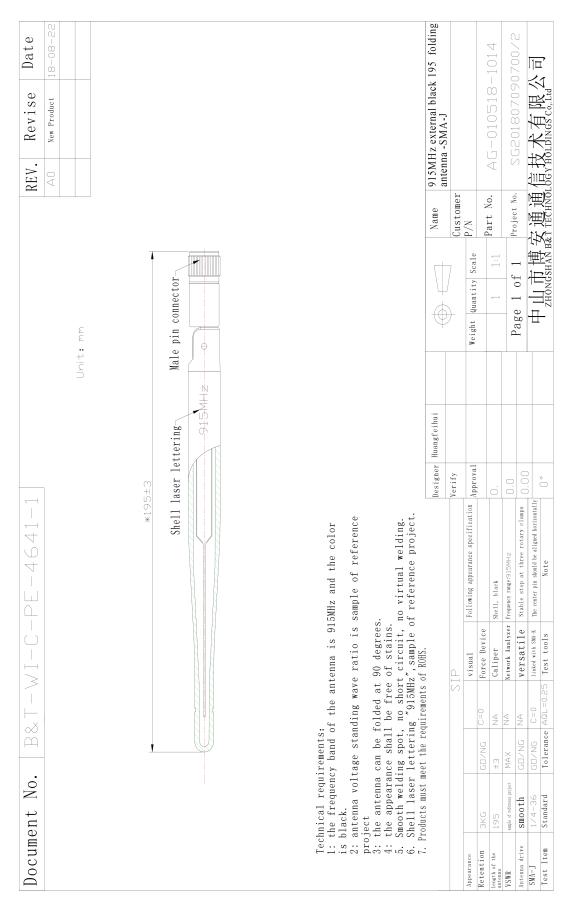


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3. Product drawing





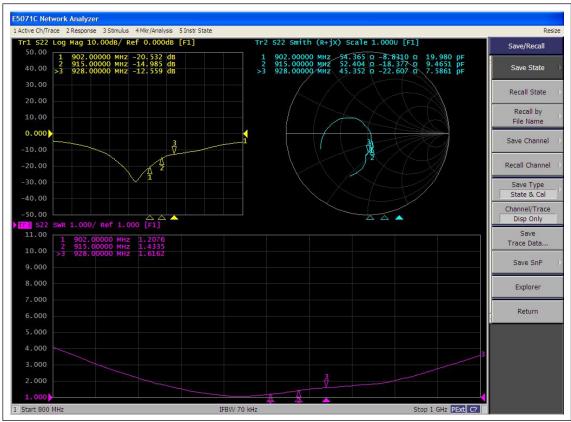
4. Properties ¶meter

Electrical Parameter				
Freq Range	902-928MHz			
Characteristic Impedance	50 Ω			
VSWR	sample of reference project			
Max Gain	2.6dBi			
The Max input power	<10w			
On and off the test	pathways			
Polarization mode	Linear polarization			
Radiation mode	Omni directional			
Connector style	SMA-J/Male pin			
Mo	echanics Properties			
Length	$195 \pm 3 \text{mm}$			
Sustaining power	≥3KG			
Insertion force	/			
Coaxial cable	RG178线			
Salt spray test	24Н			
Environment parameter				
Operating Temp	-30℃~65℃			



5. Electrical test report

S11 Parameter



VSWR

Freq/MHZ	902	915	928
VSWR	1.20	1.43	1.61

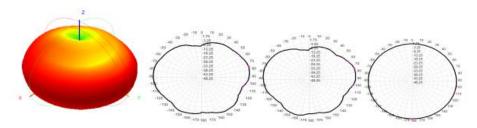
Gain and Efficiency

频率 /MHz	902.0	903.0	905.0	907.0	909.0	911.0	913.0	915.0
增益/dBi	2.27	2.28	2.32	2.44	2.46	2.48	2.59	2.61
效率/%	69.67	69.28	70.65	71.84	72.89	73.88	74.84	75.73
频率 /MHz	917.0	919.0	921.0	923.0	925.0	927.0	928.0	
增益/dBi	2.63	2.55	2.56	2.54	2.47	2.37	2.26	
效率/%	74.49	73.35	72.99	72.00	71.27	71.09	70.39	

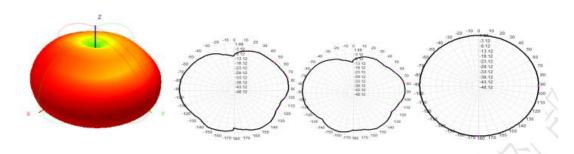


Direction diagram

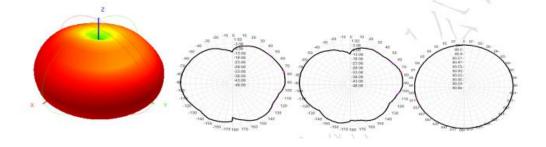
902MHz



915MHz



928MHz





6. Reliability test report

6. 1. Sustaining power

Test Item:	Retent	ion	Sheet No.:		
Product name / specification	915MHz antenna -	external black 19-SMA-J	95 folding	Test numb	per : 5PCS
Submission dat	e: 2019-1	11-05		Finish date	e: 2019-11-06
Test requipme	ent				
Test condition 1. Temperature: 2. Humidity ≤ 70	18-25℃				
Test Result:	: PASS				
	The holding	force between the	ne connector and	the fold≥3kg	rf
test No.	1	2	3	4	5
test result	3. 1 3. 15 3. 12 3. 1 3. 1				
P.S.:					
Results judgement: OK					
Tester: Zhouminhua Verify: Jianghongying					



6. 2. Constant temperature and humidity test

Test Item		Constant tempera	Sheet No.		
Product name specification	e /	915MHz external antenna -SMA-J	black 195 folding	Test number	: 5PCS
Submission	date	: 2019-11-05		Finish date: 2	2019-11-06
Test requipme 1. Constant ten 2. 8753ES Net	nperatı	are and humidity te	st chamber		
	nder c	onstant temperate ~90%RH test, a to	ure −30°C for 12 h tal of 24 hours.		
		,	Test Result		
Decision criter					
			eling, cracks wrinkling, so raze, deformation, as well	•	
-			voltage standing wave ration		,
Test Item	E	Before the test	After the test	Result description	Judging result
Appearance No color deviation , deformed & disconnect are deformed & disconnect are deformed and deformed deformed are deformed deformed are deformed deform					Pass
Electrical VSWR Pass the test VSWR Pass the test Have no any defects Pass					
Results judgement: OK Don't make decision					
Tester: Zhouminhua Verify: Jianghongying					



6. 3. High & low temperature thermal shock test

Test Item		thermal shock	test	Sheet No.		
Product name specification	/	915MHz external antenna -SMA-J	black 195 folding	Test number : 5PCS		
Submission o	date	e: 2019–11–05		Finish date: 2019-11-06		
Test requipme 1.Constant ter 2. 8753ES Ne	nper	ature and humidity	test chamber			
Test conditions -40°C (2H)	-	°C (2H), 6cycle	es, total:24 hours			
			Test Result			
discoloration, w	or's s ⁄arp	_	ing peel off, wrinkle and b	roken ;The plastic	e parts have no	
Test Item	Befo	ore the test	After the test	Result description	Judging result	
Appearance	Appearance No discoloration, cracking, warp and break off No discoloration, cracking,				Pass	
Electrical VSWR Pass the test VSWR Pass the test Have no any defects Pass						
Results judgement: OK						
Tester: Zhouminhua Verify: Jianghongying						



6. 4. Salt spray test

	T						
Test Item	Salt spray	test	Sheet No.				
Product name / specification	915MHz exter -SMA-J	nal black 195 folding antenna	Test number : 5PCS				
Submission date: 2019-11-05 Finish date: 2019-11-							
Test requipment: HL-60-SS Salt spray tester							
1. the temperat the test room i 2 the speed of	Test Parell. PAGE						
Sample	No.	Result description	Judging result				
1		Have no any defects	Pass				
2		Have no any defects	Pass				
3		Have no any defects	Pass				
4		Have no any defects	Pass				
5 Have no any defects Pass							
Results judgement: OK Don't make decision							
Tester: Zhouminhua Verify: Jianghongying							



PACKING CRITERION

P/N: AG-010518-1014 Spec.: 915MHz external black 195 folding antenna -SMA-J - contents of label (according to the customer's name, refer to the corresponding finished product label production requirements. If there is no requirement, it will follow the ordinary label requirements.) Label for PE bag/ carton, L:10cm; W:6cm Label for PE bag/ carton, L:10cm; W:6cm ****** ****** buyer buyer ZHONGSHAN B&T TECHNOLOGY Co,.Ltd ZHONGSHAN B&T TECHNOLOGY Co,.Ltd vender vender ***** ****** Purchase No Purchase No ****** ****** Material No. Material No. ***** ** ***** Part name QC Part name QC **** ** * **** **** ** * **** Q'ty/Unit Manufacture date Q'ty/Unit Manufacture date ***** ***** ***** ***** Trace code Trace code 2. Packing requirements Job description: ① The inner packing: _50__PCS/bag PE袋 2 outer packing: 600 PCS/carton 纸箱 Notice: