

CUSTOMER _____

SPECIFICATION FOR APPROVAL

CUSTOMER PART NO: _____

DESCRIPTION NO. _____ T757513 / 4dBi UHF RFID

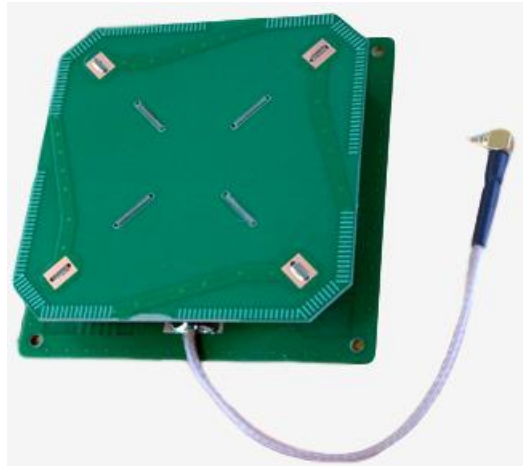
PRESENT DAY : _____ 2020/06/13

DRAWING			CUSTOMER APPROVE
MADE	CHECKED	APPROVED	
Berry	Boby	Henry	
DATE: 2020/06/13			DATE:

ShenZhen Fuwit Technology Co., Ltd.

ST-R03-10

1. Product images



2. Product application areas

T757513 it is a universal 4dBi circularly polarized antenna suitable for UHF RFID applications, designed using the four-arm spiral principle, with good front-to-back ratio and excellent wide beam circularly polarized characteristics.

This antenna has a wide frequency range, small size, light weight, high gain, low standing wave, good directional symmetry, and low axial ratio. It can be conveniently applied to UHF band RFID handheld devices, compact small all-in-one devices, and other equipment.

3. Technical parameter :

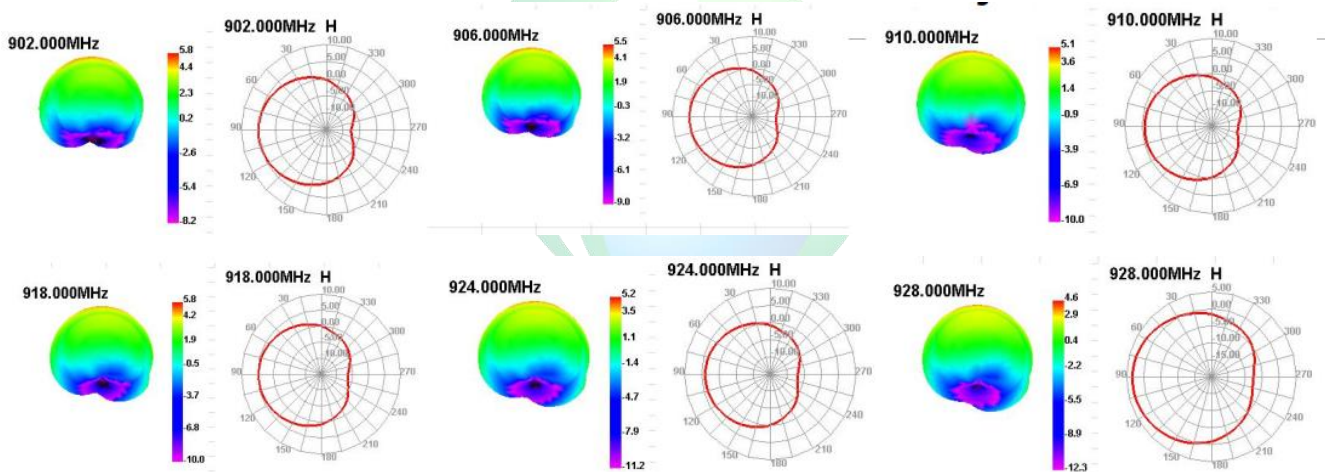
frequency range (MHz)	902MHz~928MHz
Polarization mode	Circular polarization
gain(dBi)	>4dBi
Axis ratio(dB)	<3dB
H-face HPBW	120 °
E-face HPBW	120 °
impedance(Ω)	50 Ω
Voltage standing wave ratio(VSWR)	$\leq 1.3:1$
Type of connector	IPEX、MMCX、SMA Optional
Joint position	Side feed
Product size(mm)	75mm×75mm×13mm
weight	27g
colour	green
Installation method	Screw fixation or adhesive backing
working temperature (°C)	-40°C ~ +85°C

4. Darkroom testing 3D Gain & Efficiency

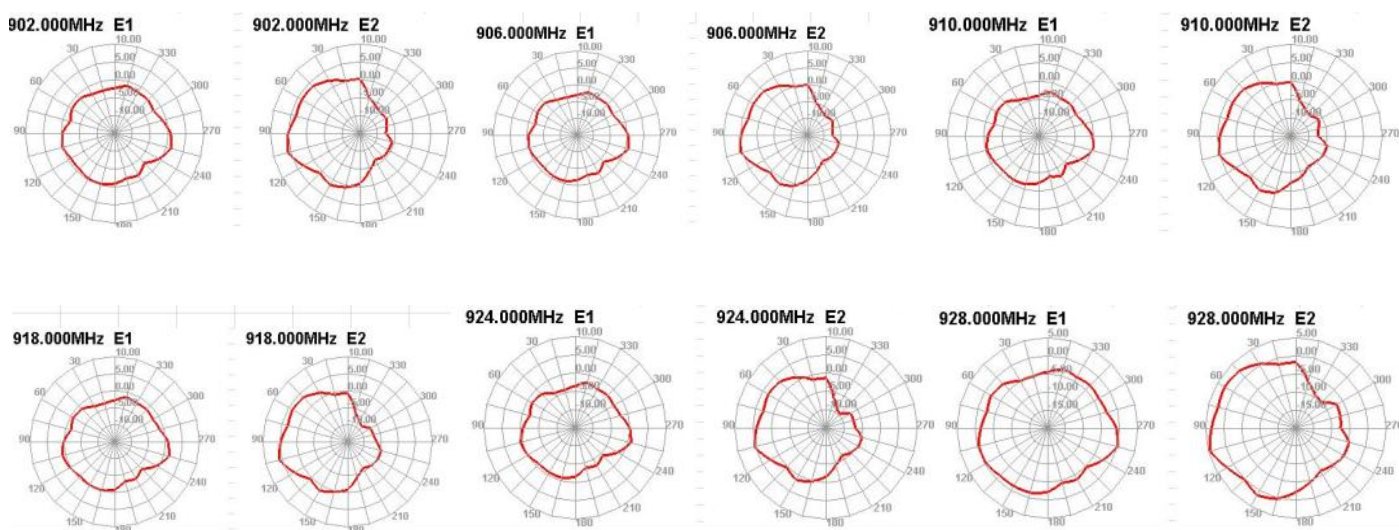
902MHz ~ 928MHz Gain

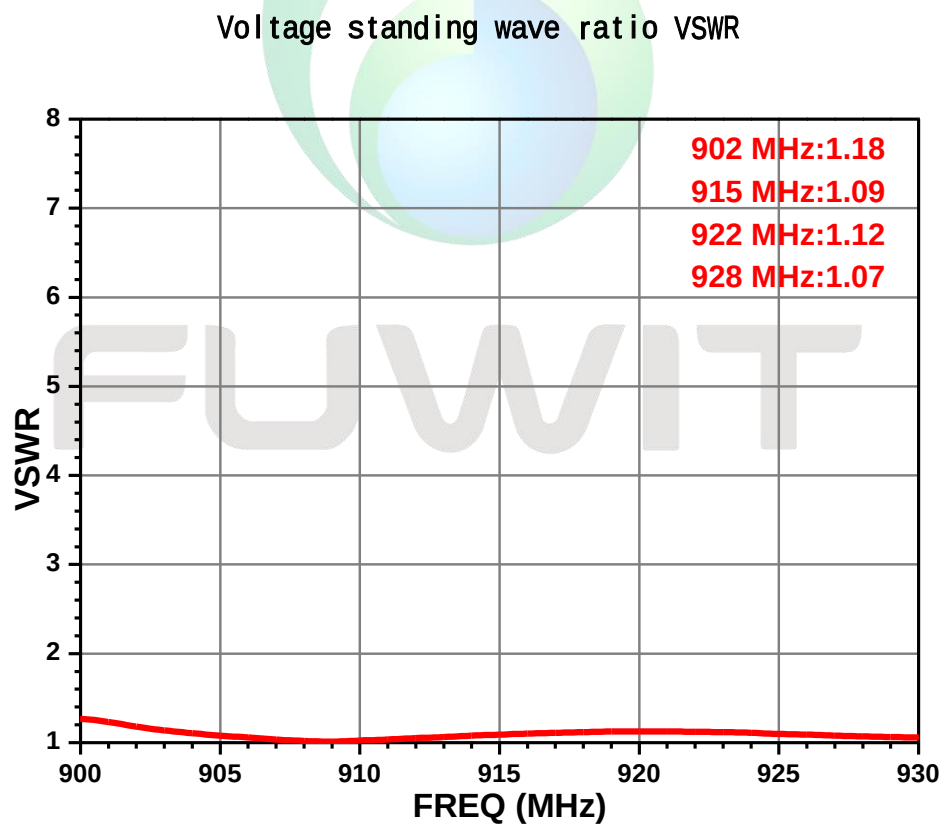
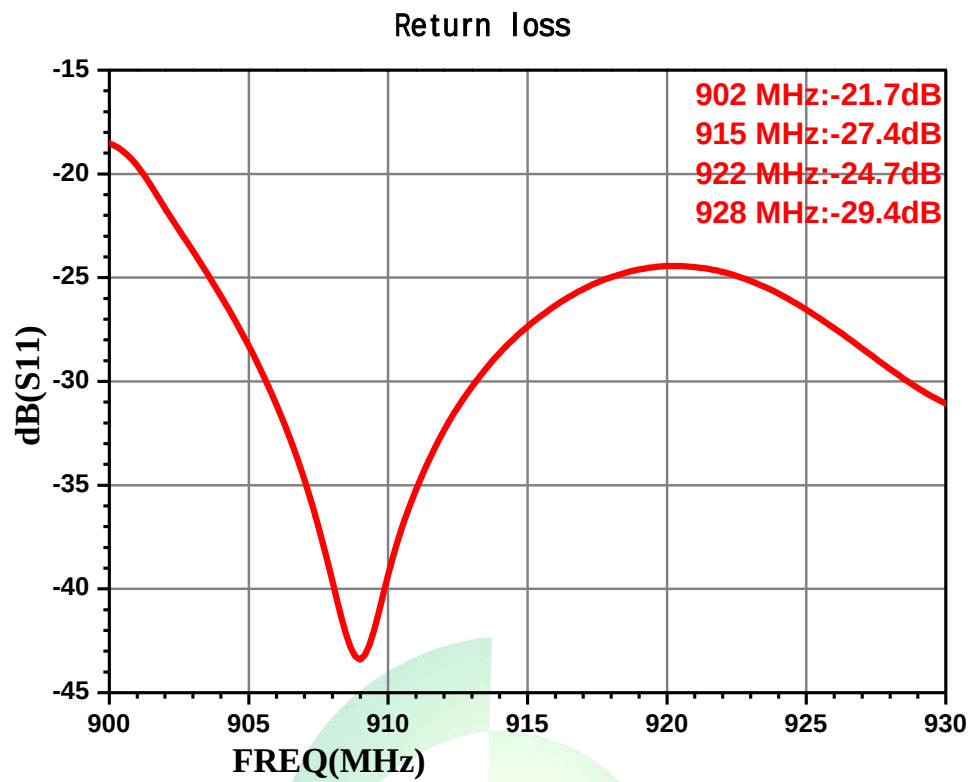
Passive Test For 902-928										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenuat Hor	Attenuat Ver
902	101.52	0.07	5.79	3.64	47.479	54.044	5.79	-8.24	43.16	43.21
904	99.06	-0.04	5.67	3.52	46.209	52.85	5.67	-8.57	43.51	43.54
906	95.87	-0.18	5.5	3.35	44.66	51.211	5.5	-9.02	43.85	43.88
908	92.07	-0.36	5.32	3.17	42.811	49.259	5.32	-9.51	44.2	44.21
910	88.76	-0.52	5.12	2.97	41.062	47.701	5.12	-9.95	44.55	44.54
912	90.77	-0.42	5.21	3.06	41.708	49.067	5.21	-10.08	44.9	44.88
914	97.97	-0.09	5.6	3.45	44.79	53.184	5.6	-9.97	45.25	45.22
916	102.35	0.1	5.82	3.67	46.49	55.86	5.82	-9.9	45.61	45.57
918	102.48	0.11	5.82	3.67	46.287	56.198	5.82	-10.02	45.96	45.91
920	100.88	0.04	5.75	3.6	45.373	55.505	5.75	-10.22	46.31	46.25
922	95.19	-0.21	5.47	3.32	42.721	52.465	5.47	-10.78	46.49	46.43
924	89.76	-0.47	5.19	3.04	40.219	49.537	5.19	-11.23	46.67	46.61
926	84.1	-0.75	4.88	2.73	37.596	46.506	4.88	-11.83	46.84	46.78
928	78.74	-1.04	4.56	2.41	35.034	43.701	4.56	-12.28	47.02	46.96

H-face directional diagram (horizontal lobe directional diagram)

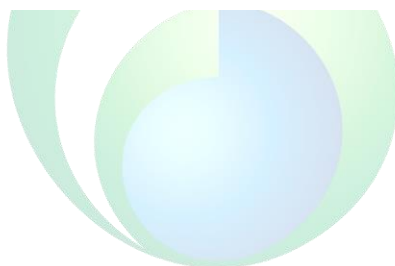
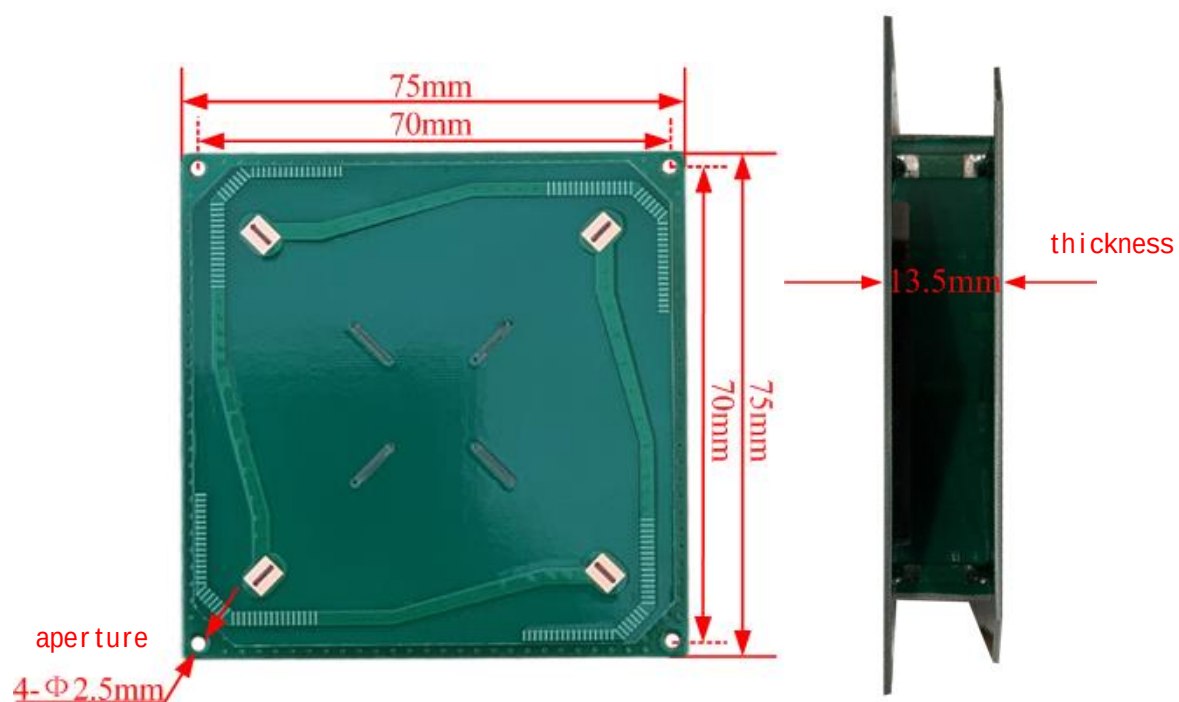


E - face Directional diagram (vertical lobe directional diagram)





5、Product structure size parameters



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