

CUSTOMER_____

SPECIFICATION FOR APPROVAL

CUSTOMER PART NO: _____

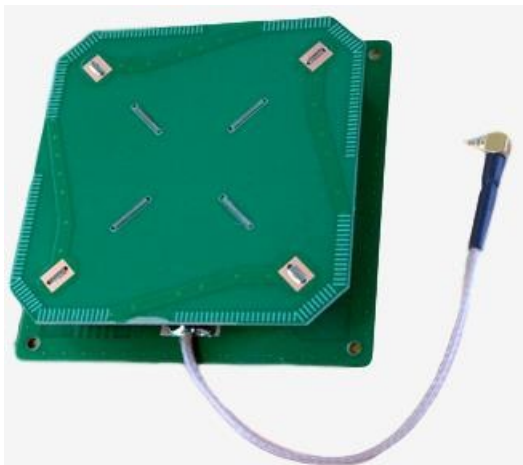
DESCRIPTION NO. T757513 / UHF RFID Antenna

PRESENT DAY : 2020/06/13

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

ShenZhen Fuwit Technology Co., Ltd.

1. Product picture



2. Product application field

T757513 is a universal 5.8 dBi round polarization antenna suitable for UHF frequency band RFID applications. It is designed by the four-arm spiral principle, and has good front and rear ratio and excellent wide beam round polarization characteristics.

The antenna is suitable for the characteristics of wide frequency range, small volume, light weight, high gain, low standing wave, good orientation diagram symmetry, and low axis ratio. It can be easily applied to the UHF frequency band RFID handheld machine, compact small all-in-one machine and other equipment.

3. technical parameter:

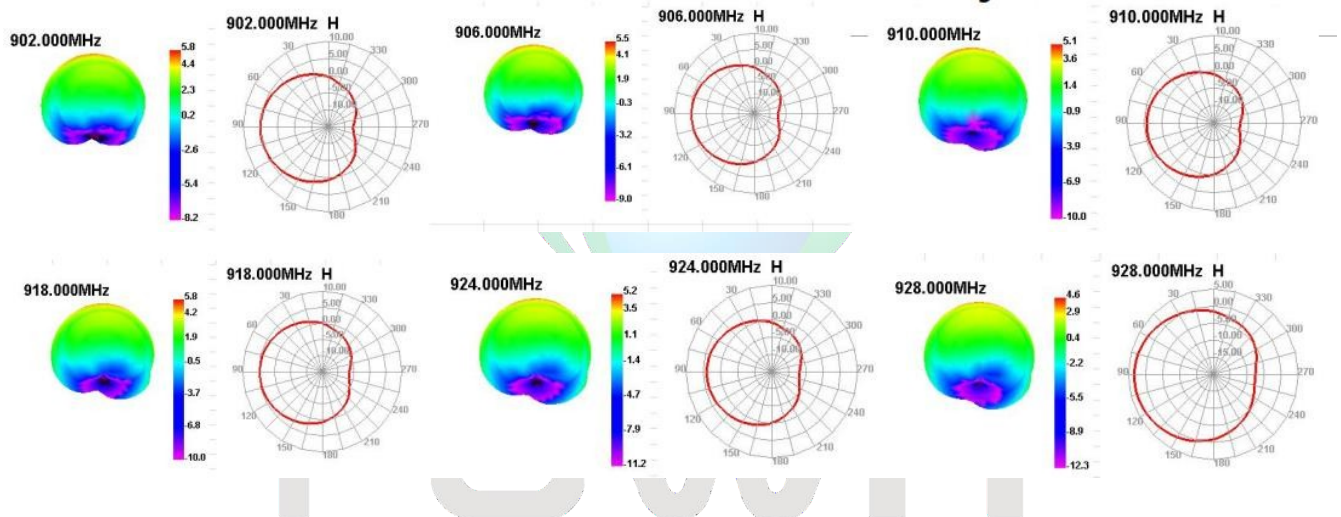
Frequency Range (MHz)	902MHz ~ 928MHz
Polarization mode	circular polarization
Gain (dBi)	>5.8dBi
Axial ratio (dB)	<3dB
H face, HPBW	120 Degrees
E-face, HPBW	120 Degrees
Impedance (Ω)	50 Ω
Voltage-standing wave ratio (VSWR)	$\leq 1.3:1$
Joint categories	IPEX, MMCX, SMA are optional
Joint position	Side feed
Product Size (mm)	75mm×75 mm×13mm
Weight	27g
Pigment	green
Way to install	Screw fixing or back adhesive adhesive
Operating temperature (° C)	-40°C ~ +85°C

4. 3D Gain & Efficiency

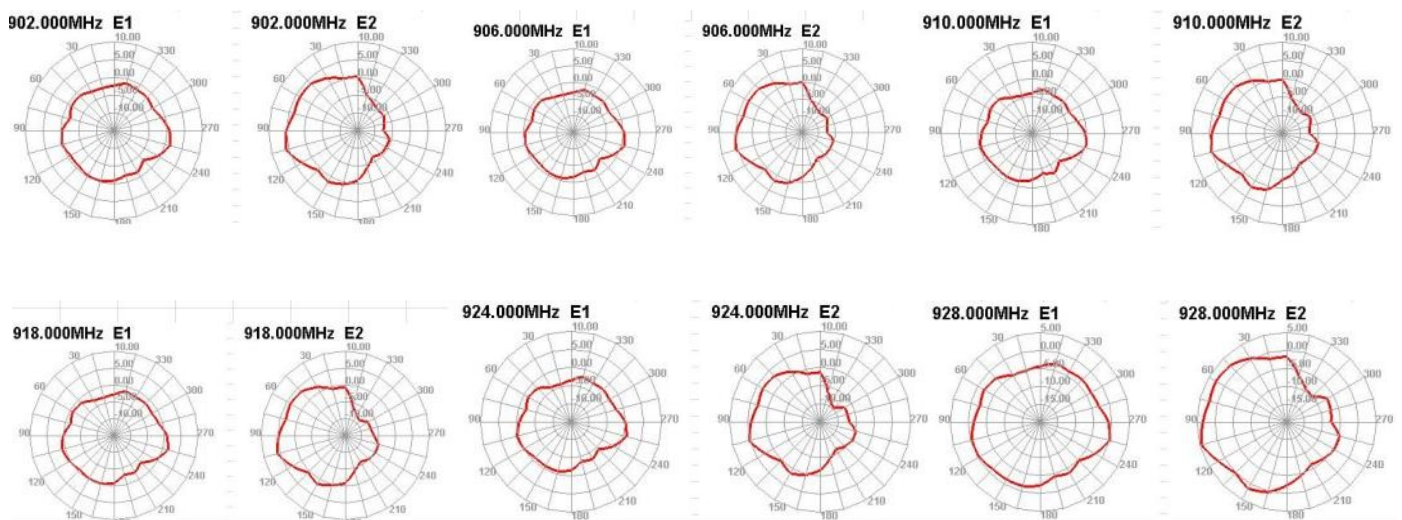
902Mhz ~ 928Mhz Gain

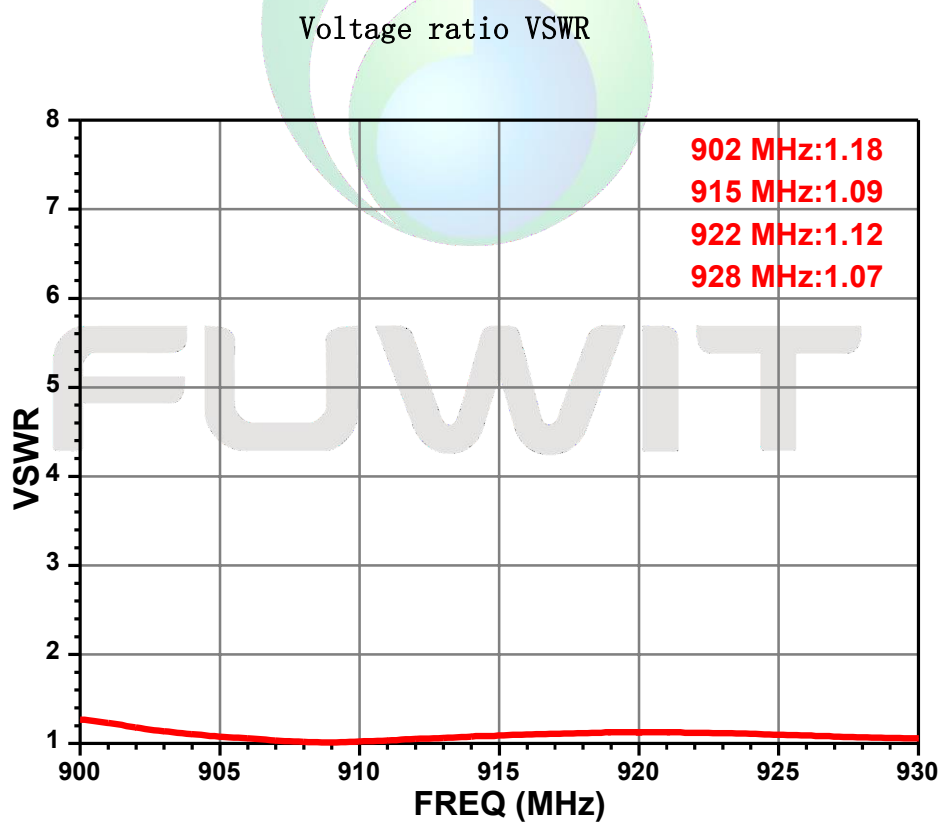
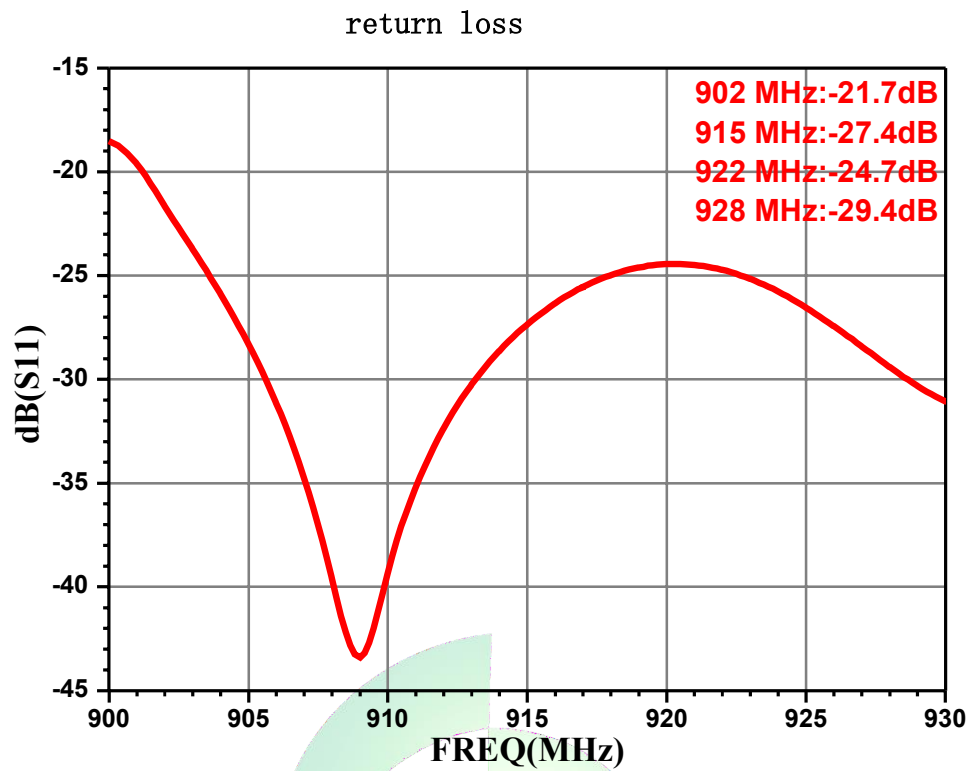
Passive Test For 902-928										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
902	101.52	0.07	5.79	3.64	47.479	54.044	5.79	-8.24	43.16	43.21
904	99.06	-0.04	5.67	3.52	46.209	52.85	5.67	-8.57	43.51	43.54
906	95.87	-0.18	5.5	3.35	44.66	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-plane orientation diagram

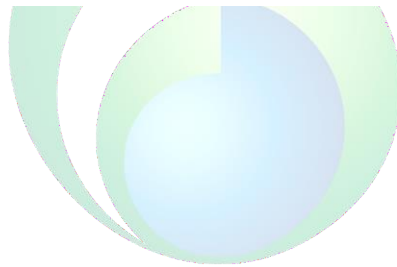
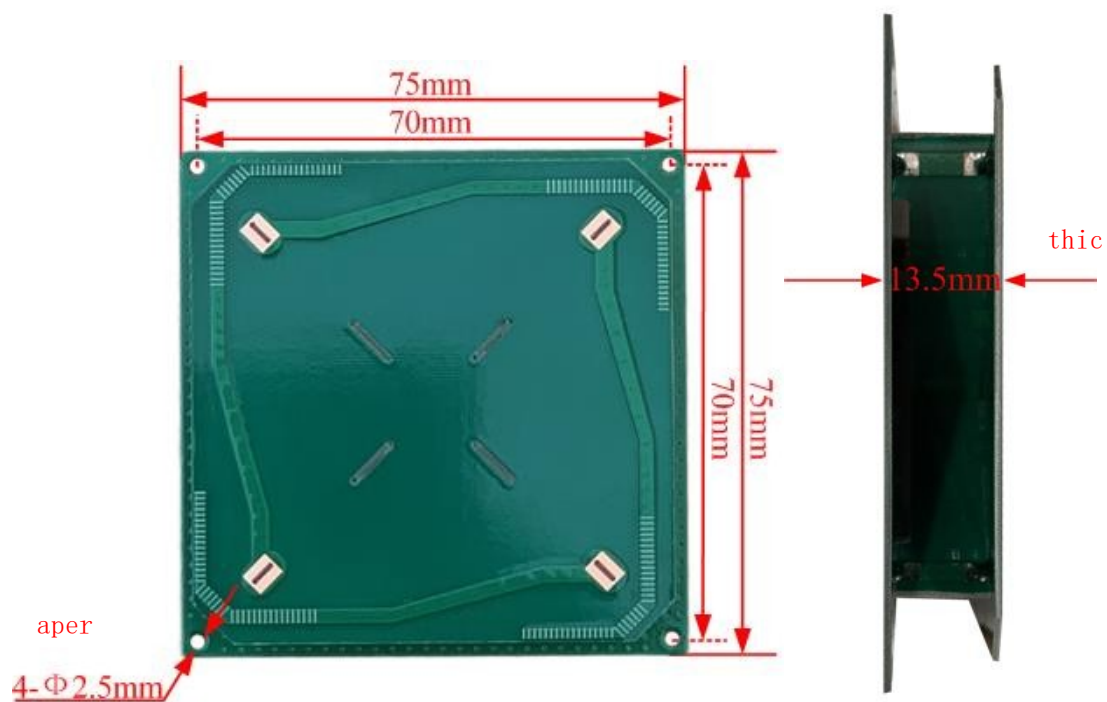


E-plane orientation diagram (vertical flap orientation diagram)





5. Product structure and size parameters



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