

1. Electrical Specifications.

Test item	Test environment	FT06 specification				
		Min	Typ	Max	Units	Notes
IC	—	—		—	—	THN31FGB1N
Antenna frequency	—	—	13.56	—	MHz	-
Antenna inductance	1 MHz	1.67	1.72	1.77	μH	±0.05
Antenna resistance	1 MHz	0.66	0.86	1.06	Ω	±0.2
Ferrite permeability	13.56 MHz	135	150	165		±10%
Magnetic loss of ferrite	13.56 MHz	—	—	5		≤5

LCR control

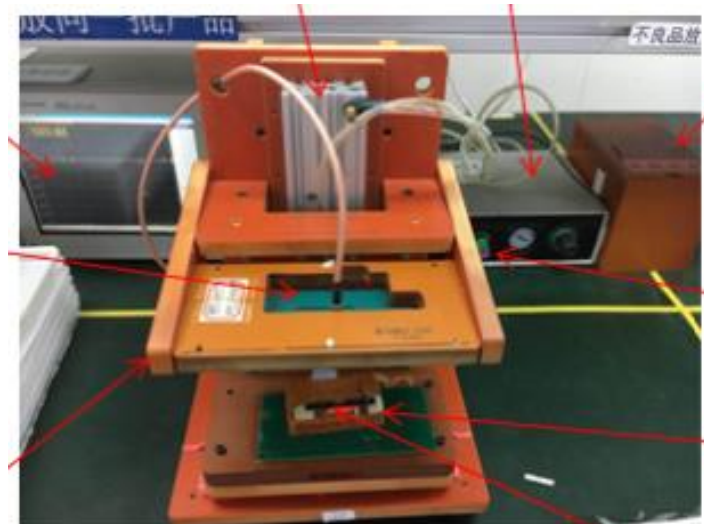
Scope of control: 1MHz inductance: : ± 0.05

1MHz resistance: ± 0.2

S11 control

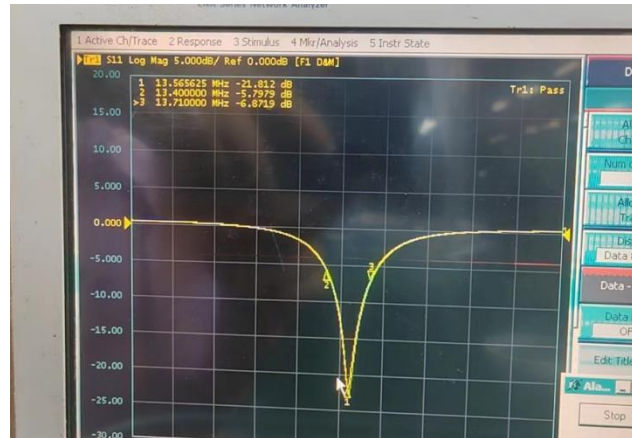
Scope of control: 13.56 ± 0.15 MHz

S11 Management and control mode



Manufacturer: TSC Auto ID Technology Co., Ltd.

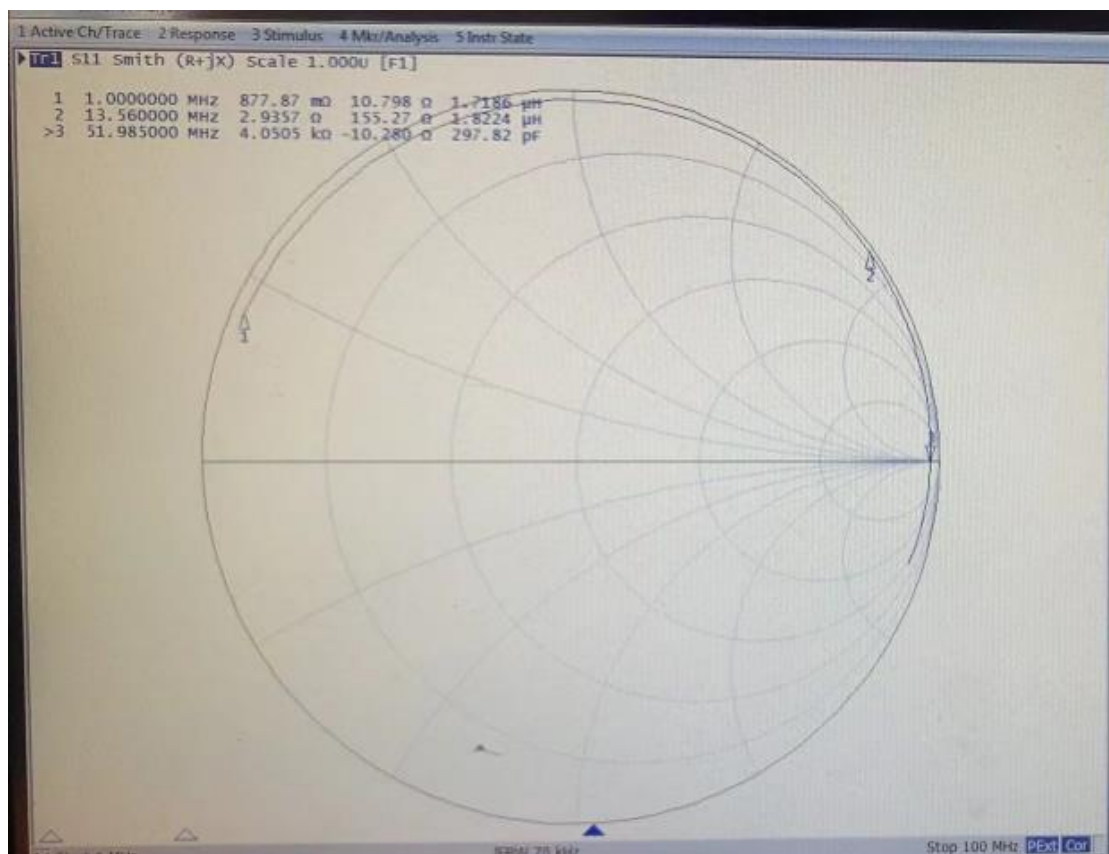
Address: 9F., No. 95, Minquan Rd., Xindian Dist., New Taipei City, Taiwan



Scope of control: $13.56 \pm 0.15 \text{ MHz}$

2. Parameter test screenshot and test method diagram

Antenna free space test



3. Read/write mode Distance test data and scene photos

R/W mode distance vs. Tag 1/2/3/4	Tag 1 (Topaz)	45mm
	Tag 2 (Ultralight)	45 mm
	Tag 3 (Sony-Felica)	35mm
	ISO 14443-3A	40mm
	Tag 4 A (Desfire)	25mm
	Tag 5 (15693)	55mm



Tag1(Topaz-512)



Tag 2 (Ultralight)



Tag3(Sony-Felica)



Tag 4 (Desfire)

Note: The above reading distance is the reading distance of the debugging machine, and the reading distance of the trial production and mass production machine shall be subject to the actual situation.

4. Picture of antenna

Number of turns	4TS
Inner diameter	42*17mm
Outer diameter	52*25mm

