

1. Electrical specification requirements for antennas

Test project	testing environment	Tianma 1.77 specification				
		Min	Typ	Max	Units	Notes
chip type	-	-	-	-	-	捷联 6567P
Antenna frequency	-	13.41	13.56	13.71	MHz	+/-150k
Antenna inductance (single antenna)	1 MHz	1.21	1.24	1.27	μ H	+/-3%
antenna impedance	1 MHz	0.62	0.82	1.02	Ω	+/-0.2 Ω
Ferrite permeability μ'	13.56 MHz	135	150	165		+/-10%
Ferrite magnetic loss μ''	13.56 MHz	-	-	5	-	<5

LCR control

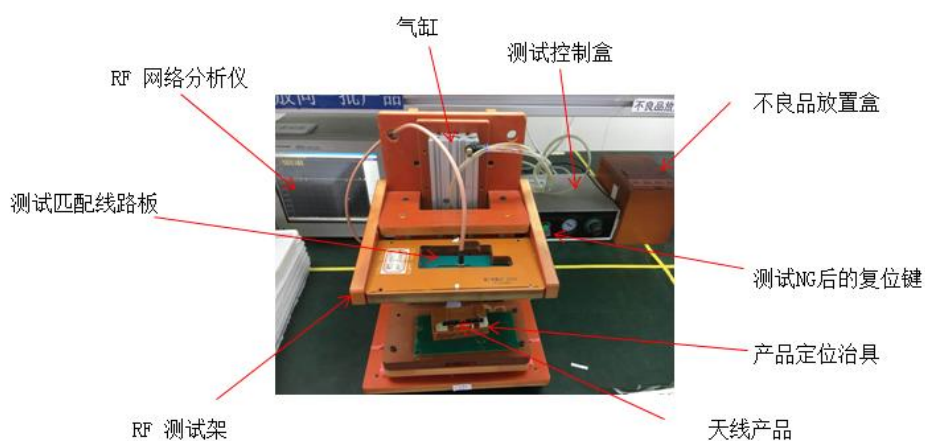
Control range: Inductance at 1MHz: $\pm 3\% \mu$ H

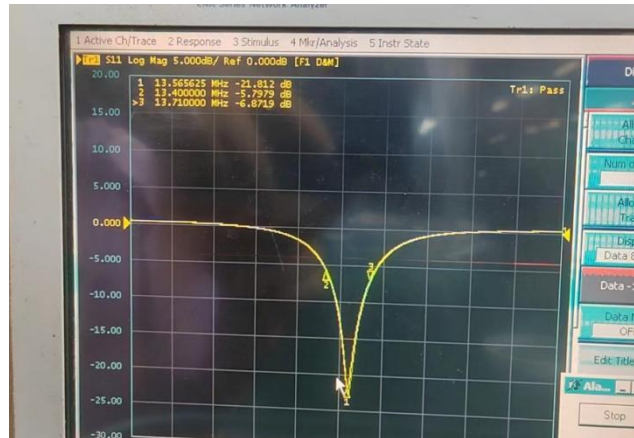
Resistance at 1MHz: $\pm 0.3 \Omega$

S11 Control

Control range: 13.56 \pm 0.15MHz

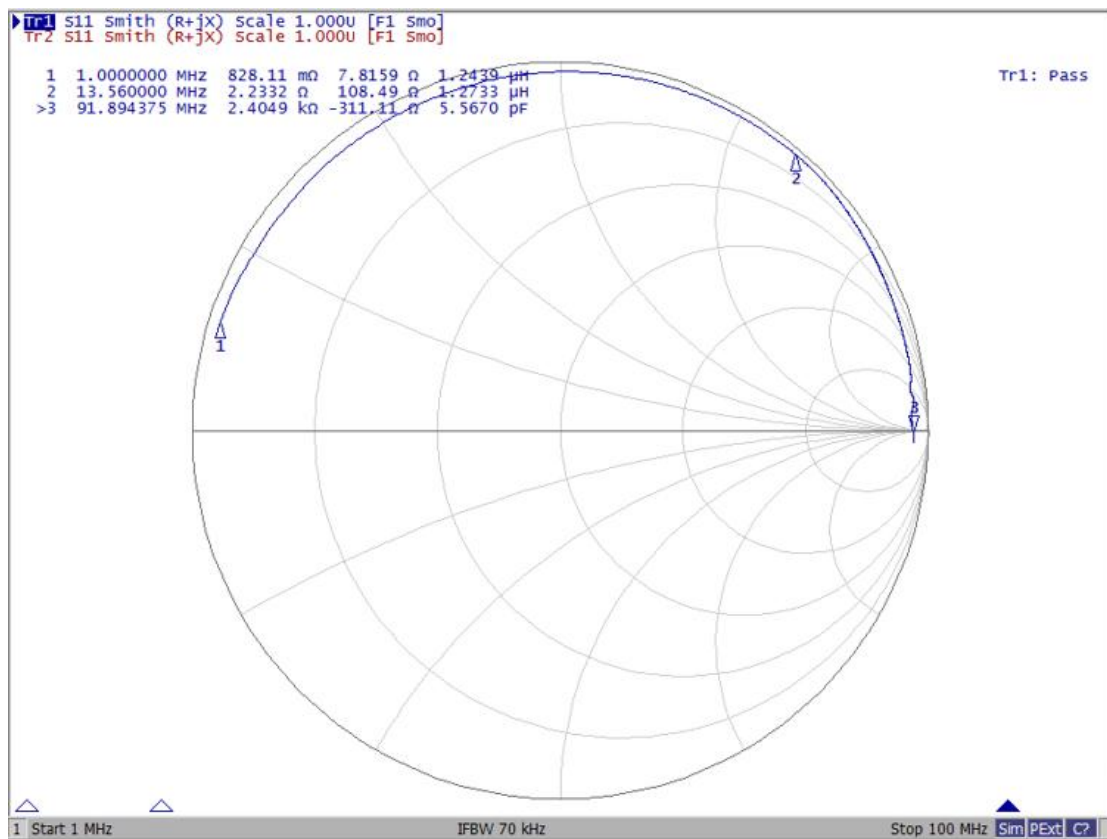
S11 管控方式





Control range: Minimum frequency point $\pm 0.15\text{MHz}$

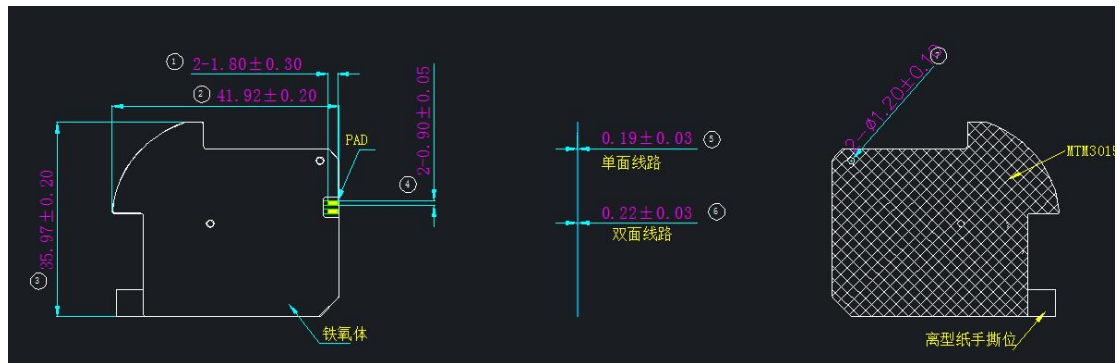
2. Single antenna parameter Smith chart



3. NFCActive performance

读卡类型： 手机终端	iPhone 14 Pro	17mm
	Xiaomi 12S pro	25mm
卡模拟	30mm	

Size



Model: F2001

Manufacturer: Dongguan Demen Electronics Co., Ltd.