

SGG-06_NFC_Antenna_Electrical _Specifications

information of DUT

Model Name	SGG-06
Set Type	Smart Phone
Antenna Num	NFC
Frequency	■13.56MHz
Antenna Material	FPC+ Ferrite Material
Antenna Type	LOOP
Antenna maker	INPAQTECHNOLOGY CO., LTD.
Address	No.11, Ke-Yi St., Chu Nan Chen Miaoli County; Miaoli County

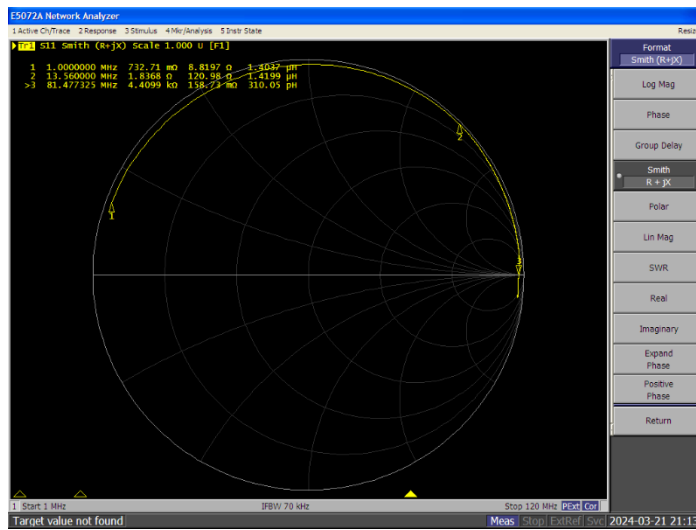
Electrical_Specifications

Test item	Test conditions	SGG-06 specification				
		Min	Typ	Max	Units	Notes
IC	—	—	Nxp	—	—	SN220T
ANT_Frequency	—	—	13.56	—	MHz	-
Ls	1 MHz	1.35	1.40	1.44	μH	±3%
Rs	1 MHz	0.53	0.73	1.93	Ω	±0.2
FerriteMagnetic permeability	13.56 MHz	135	150	165		>
FerriteMagnetic loss	13.56 MHz	—	—	5		≤5

Testing equipment:LCR

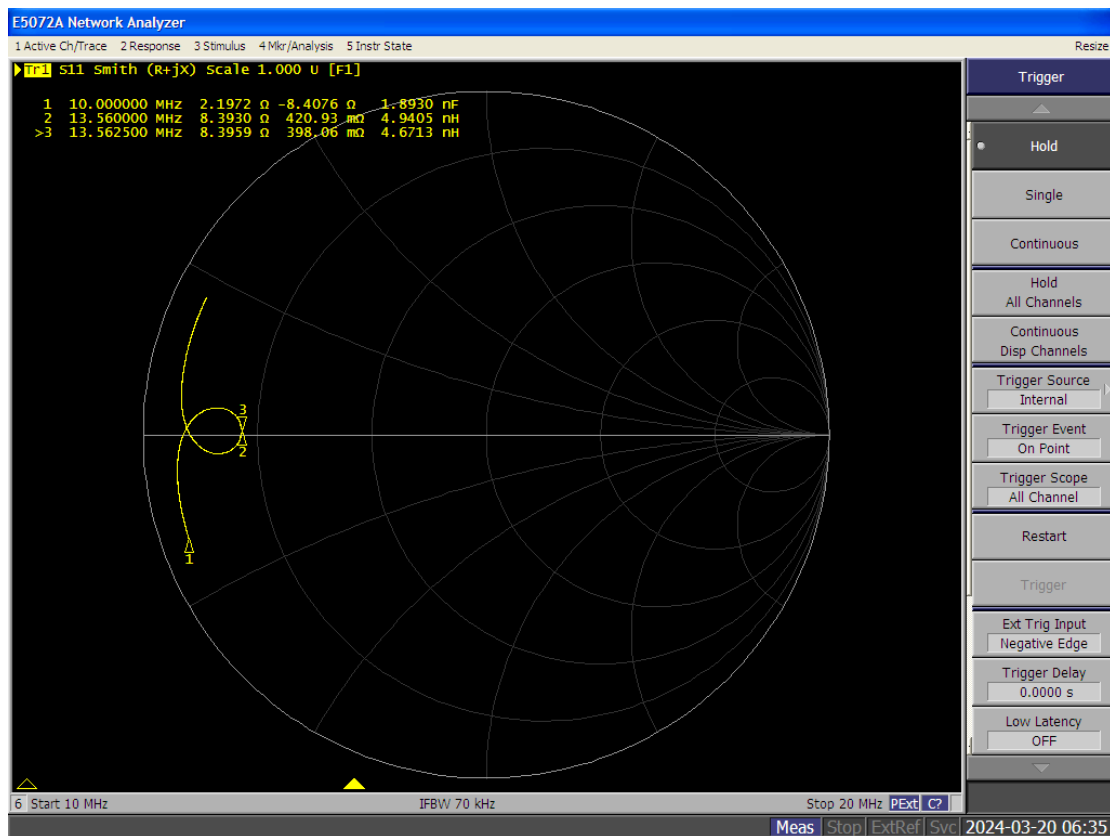
Scope: Ls@1MHz±3%;Rs@1MHz±0.2Ω

Antenna parameters:



Rs (Ω) @1M	0.73
La (μ H)@1M	1.40
Rp (k Ω)	4.40
Fra (MHz)	81.47
Rs (Ω)@13.56M	1.83
La (μ H)@13.56M	1.41

Tuning Impedance



Only radiated measurements are used to show compliance with FCC limits for fundamental and spurious emissions.