

Yoda NFC Antenna

RF performance

Version: D

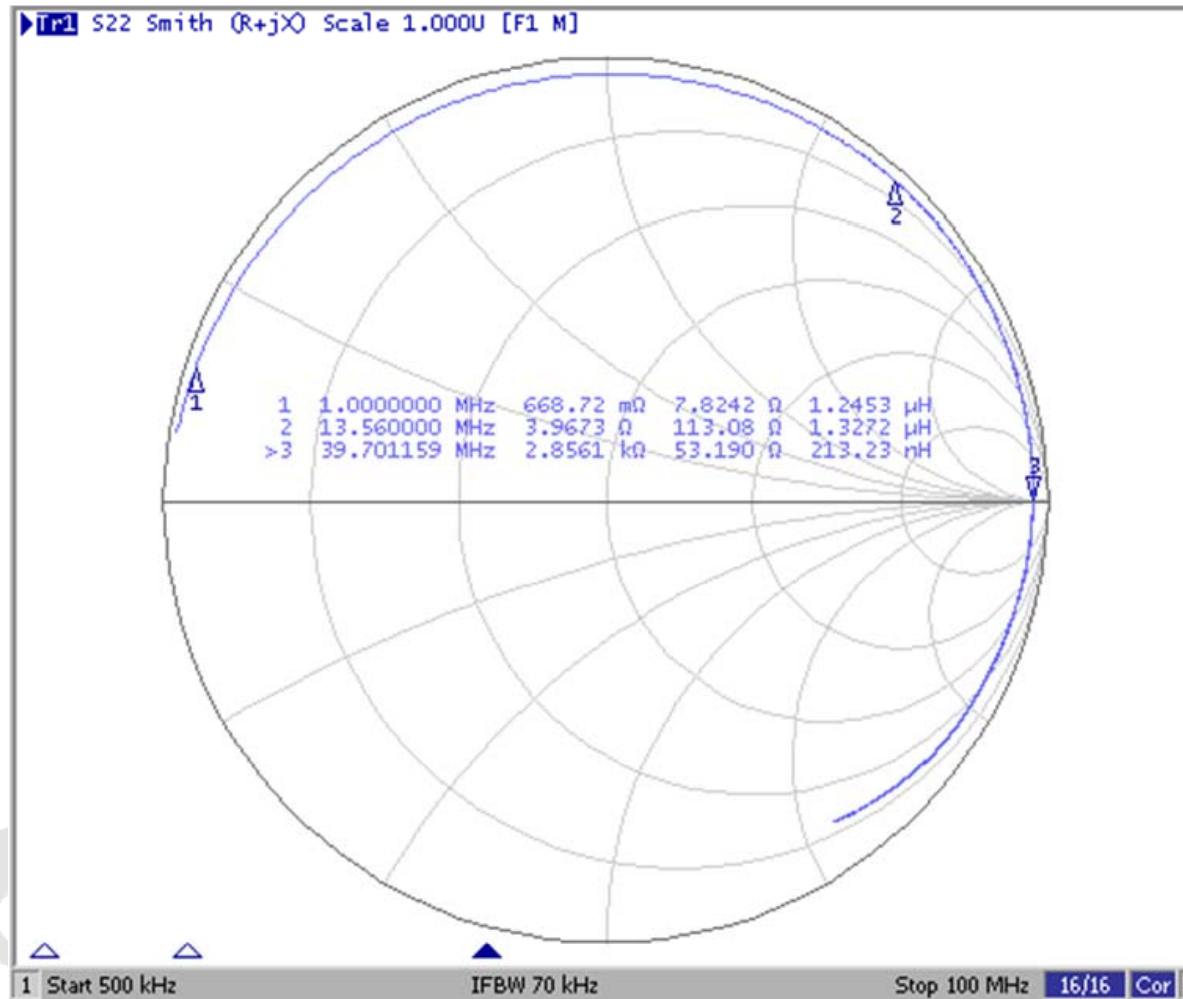
Product form: Shanghai Amphenol Airwave
SAA P/N Information: LX7828-12-000-C (40mm cable)

Prepared by SAA
2016-08-05

■ Test situation

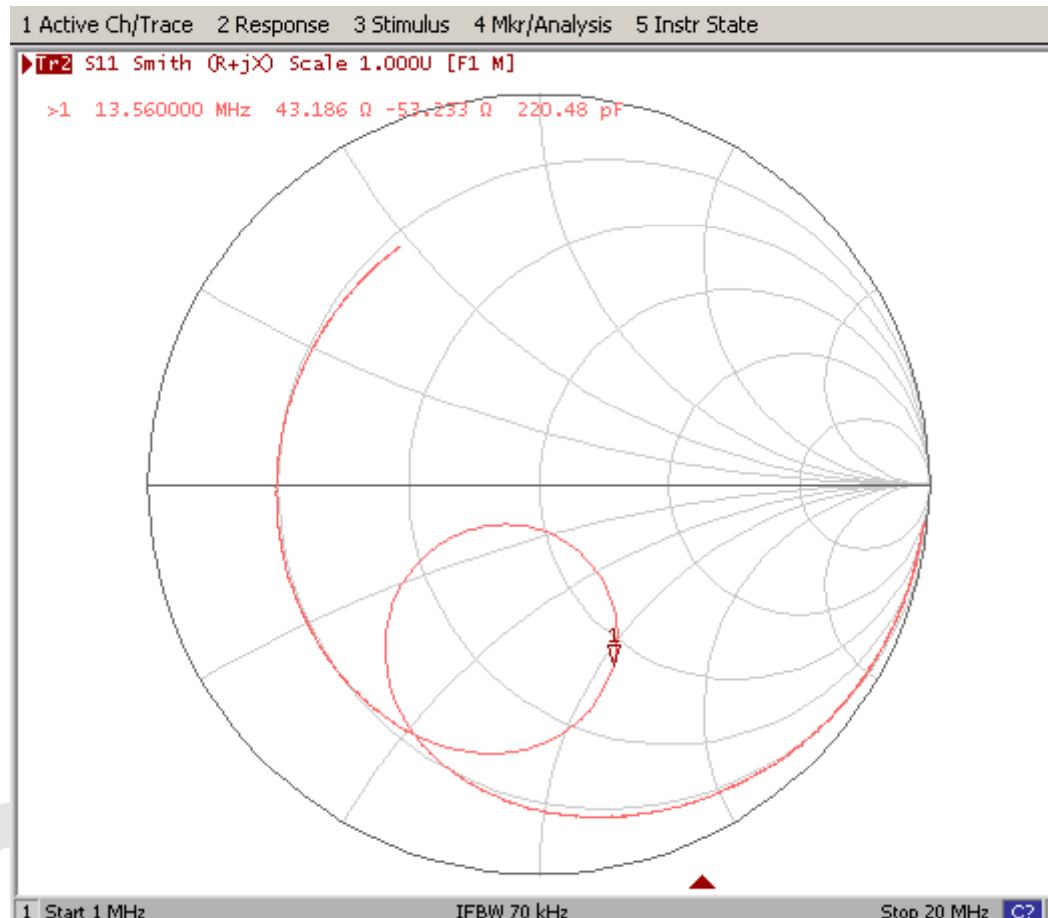


■ Antenna electric parameters



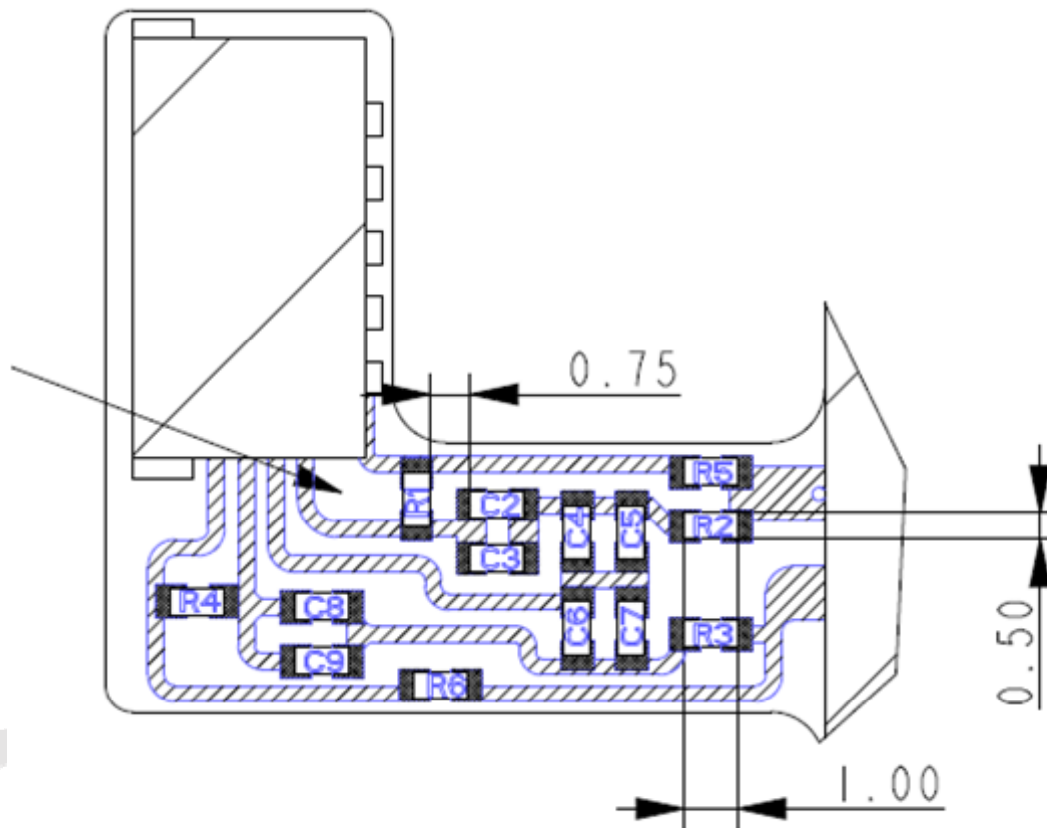
$L_a =$	1.245E-06	[H]
$R_s =$	6.687E-01	[Ω]
$R_p =$	2.856E+03	[Ω]
$f_{ra} =$	3.970E+07	[Hz]
$Q =$	35.78	

■ Antenna impedance at 13.56MHz



Impedence	43.1 Ω
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■ Antenna matching (original)



	SPEC
R1	1K
R2	0R
R3	0R
R4	1K
R5	NC
R6	NC
C2	47pF
C3	NC
C4	240 pF
C5	100 pF
C6	240 pF
C7	100 pF
C8	47pF
C9	NC

■ Antenna Range Performance

Tag Type of NFC Forum	Read range criteria (mm) above the touchpad cover
Type 1	12
Type 2	8
Type 3	15
Type 4A	7
Type 4B (T-MONEY)	9
Type 5 (Type V)	48

