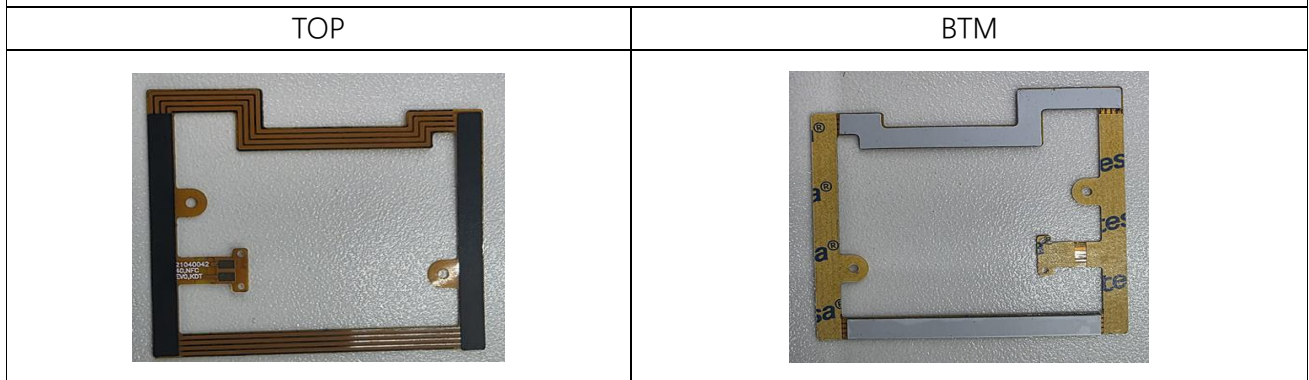


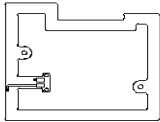
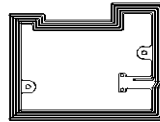
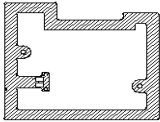
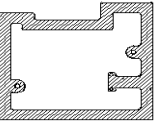
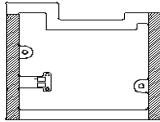
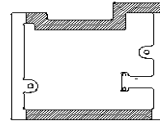
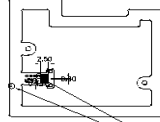
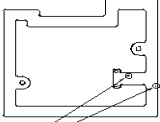
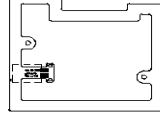
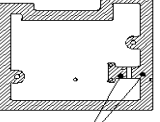
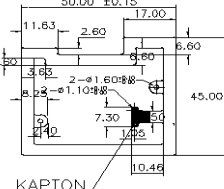
ANTENNA APPROVAL SHEET

USER MODEL	X40	PART NUMBER	421040042
PART NAME	ANT NFC / X40, NFC, REV1, KDT	Material	FPCB
Weight	0.64g	Antenna Type	FPCB Antenna
VENDOR	KDT		

< IMAGE >



Rev.	DATE	Contents	Engineer	Approval
1	00.00.00	-	-	-
2	00.00.00	-	-	-

* PATTERN (TOP)  (BOT) 	* COVERLAY AREA (TOP)  (BOT) 	* FERRITE (TOP)  (BOT)  * TOP Ferrite <-> BTM Ferrite OVERLAP 금지
* Au PLATING & VIA HOLE (TOP)  (BOT)  VIA HOLE	* WHITE SILK MARK (TOP) 	* ADHESIVE TAPE TESA982 0.10T (BOT)  Double Side Tape
* KAPTON - (BOT)  KAPTON		

NOTES

1. 제품 도면과 실물 비교 후 제작에 착수 함.
2. 제품과 실물 비교 후 제작에 착수 함.
3. 실물 시 반제품 비교 후 제작에 착수 함.
4. 실물과 실물 비교 후 제작에 착수 함.
5. * * * * * (CTP) * * * * * 함.
6. 이 기밀 및 권고 사항에 대한 내용은 'ISO 27001' 함.
7. 기타 문의 사항은 반드시 * * * * * 함.

* STACK UP			
Layer	Material	Thickness (mm)	Notes
1	PCB	1.6	
2	Prepreg	0.125	
3	Core	0.125	
4	Prepreg	0.125	
5	PCB	1.6	
6	Prepreg	0.125	
7	Core	0.125	
8	Prepreg	0.125	
9	PCB	1.6	
10	Prepreg	0.125	
11	Core	0.125	
12	Prepreg	0.125	
13	PCB	1.6	
14	Prepreg	0.125	
15	Core	0.125	
16	Prepreg	0.125	
17	PCB	1.6	
18	Prepreg	0.125	
19	Core	0.125	
20	Prepreg	0.125	
21	PCB	1.6	
22	Prepreg	0.125	
23	Core	0.125	
24	Prepreg	0.125	
25	PCB	1.6	
26	Prepreg	0.125	
27	Core	0.125	
28	Prepreg	0.125	
29	PCB	1.6	
30	Prepreg	0.125	
31	Core	0.125	
32	Prepreg	0.125	
33	PCB	1.6	
34	Prepreg	0.125	
35	Core	0.125	
36	Prepreg	0.125	
37	PCB	1.6	
38	Prepreg	0.125	
39	Core	0.125	
40	Prepreg	0.125	
41	PCB	1.6	
42	Prepreg	0.125	
43	Core	0.125	
44	Prepreg	0.125	
45	PCB	1.6	
46	Prepreg	0.125	
47	Core	0.125	
48	Prepreg	0.125	
49	PCB	1.6	
50	Prepreg	0.125	
51	Core	0.125	
52	Prepreg	0.125	
53	PCB	1.6	
54	Prepreg	0.125	
55	Core	0.125	
56	Prepreg	0.125	
57	PCB	1.6	
58	Prepreg	0.125	
59	Core	0.125	
60	Prepreg	0.125	
61	PCB	1.6	
62	Prepreg	0.125	
63	Core	0.125	
64	Prepreg	0.125	
65	PCB	1.6	
66	Prepreg	0.125	
67	Core	0.125	
68	Prepreg	0.125	
69	PCB	1.6	
70	Prepreg	0.125	
71	Core	0.125	
72	Prepreg	0.125	
73	PCB	1.6	
74	Prepreg	0.125	
75	Core	0.125	
76	Prepreg	0.125	
77	PCB	1.6	
78	Prepreg	0.125	
79	Core	0.125	
80	Prepreg	0.125	
81	PCB	1.6	
82	Prepreg	0.125	
83	Core	0.125	
84	Prepreg	0.125	
85	PCB	1.6	
86	Prepreg	0.125	
87	Core	0.125	
88	Prepreg	0.125	
89	PCB	1.6	
90	Prepreg	0.125	
91	Core	0.125	
92	Prepreg	0.125	
93	PCB	1.6	
94	Prepreg	0.125	
95	Core	0.125	
96	Prepreg	0.125	
97	PCB	1.6	
98	Prepreg	0.125	
99	Core	0.125	
100	Prepreg	0.125	
101	PCB	1.6	
102	Prepreg	0.125	
103	Core	0.125	
104	Prepreg	0.125	
105	PCB	1.6	
106	Prepreg	0.125	
107	Core	0.125	
108	Prepreg	0.125	
109	PCB	1.6	
110	Prepreg	0.125	
111	Core	0.125	
112	Prepreg	0.125	
113	PCB	1.6	
114	Prepreg	0.125	
115	Core	0.125	
116	Prepreg	0.125	
117	PCB	1.6	
118	Prepreg	0.125	
119	Core	0.125	
120	Prepreg	0.125	
121	PCB	1.6	
122	Prepreg	0.125	
123	Core	0.125	
124	Prepreg	0.125	
125	PCB	1.6	
126	Prepreg	0.125	
127	Core	0.125	
128	Prepreg	0.125	
129	PCB	1.6	
130	Prepreg	0.125	
131	Core	0.125	
132	Prepreg	0.125	
133	PCB	1.6	
134	Prepreg	0.125	
135	Core	0.125	
136	Prepreg	0.125	
137	PCB	1.6	
138	Prepreg	0.125	
139	Core	0.125	
140	Prepreg	0.125	
141	PCB	1.6	
142	Prepreg	0.125	
143	Core	0.125	
144	Prepreg	0.125	
145	PCB	1.6	
146	Prepreg	0.125	
147	Core	0.125	
148	Prepreg	0.125	
149	PCB	1.6	
150	Prepreg	0.125	
151	Core	0.125	
152	Prepreg	0.125	
153	PCB	1.6	
154	Prepreg	0.125	
155	Core	0.125	
156	Prepreg	0.125	
157	PCB	1.6	
158	Prepreg	0.125	
159	Core	0.125	
160	Prepreg	0.125	
161	PCB	1.6	
162	Prepreg	0.125	
163	Core	0.125	
164	Prepreg	0.125	
165	PCB	1.6	
166	Prepreg	0.125	
167	Core	0.125	
168	Prepreg	0.125	
169	PCB	1.6	
170	Prepreg	0.125	
171	Core	0.125	
172	Prepreg	0.125	
173	PCB	1.6	
174	Prepreg	0.125	
175	Core	0.125	
176	Prepreg	0.125	
177	PCB	1.6	
178	Prepreg	0.125	
179	Core	0.125	
180	Prepreg	0.125	
181	PCB	1.6	
182	Prepreg	0.125	
183	Core	0.125	
184	Prepreg	0.125	
185	PCB	1.6	
186	Prepreg	0.125	
187	Core	0.125	
188	Prepreg	0.125	
189	PCB	1.6	
190	Prepreg	0.125	
191	Core	0.125	
192	Prepreg	0.125	
193	PCB	1.6	
194	Prepreg	0.125	
195	Core	0.125	
196	Prepreg	0.125	
197	PCB	1.6	
198	Prepreg	0.125	
199	Core	0.125	
200	Prepreg	0.125	
201	PCB	1.6	
202	Prepreg	0.125	
203	Core	0.125	
204	Prepreg	0.125	
205	PCB	1.6	
206	Prepreg	0.125	
207	Core	0.125	
208	Prepreg	0.125	
209	PCB	1.6	
210	Prepreg	0.125	
211	Core	0.125	
212	Prepreg	0.125	
213	PCB	1.6	
214	Prepreg	0.125	
215	Core	0.125	
216	Prepreg	0.125	
217	PCB	1.6	
218	Prepreg	0.125	
219	Core	0.125	
220	Prepreg	0.125	
221	PCB	1.6	
222	Prepreg	0.125	
223	Core	0.125	
224	Prepreg	0.125	
225	PCB	1.6	
226	Prepreg	0.125	
227	Core	0.125	
228	Prepreg	0.125	
229	PCB	1.6	
230	Prepreg	0.125	
231	Core	0.125	
232	Prepreg	0.125	
233	PCB	1.6	
234	Prepreg	0.125	
235	Core	0.125	
236	Prepreg	0.125	
237	PCB	1.6	
238	Prepreg	0.125	
239	Core	0.125	
240	Prepreg	0.125	
241	PCB	1.6	
242	Prepreg	0.125	
243	Core	0.125	
244	Prepreg	0.125	
245	PCB	1.6	
246	Prepreg	0.125	
247	Core	0.125	
248	Prepreg	0.125	
249	PCB	1.6	
250	Prepreg	0.125	
251	Core	0.125	
252	Prepreg	0.125	
253	PCB	1.6	
254	Prepreg	0.125	
255	Core	0.125	
256	Prepreg	0.125	
257	PCB	1.6	
258	Prepreg	0.125	
259	Core	0.125	
260	Prepreg	0.125	
261	PCB	1.6	
262	Prepreg	0.125	
263	Core	0.125	
264	Prepreg	0.125	
265	PCB	1.6	
266	Prepreg	0.125	
267	Core	0.125	

1. SPEC.

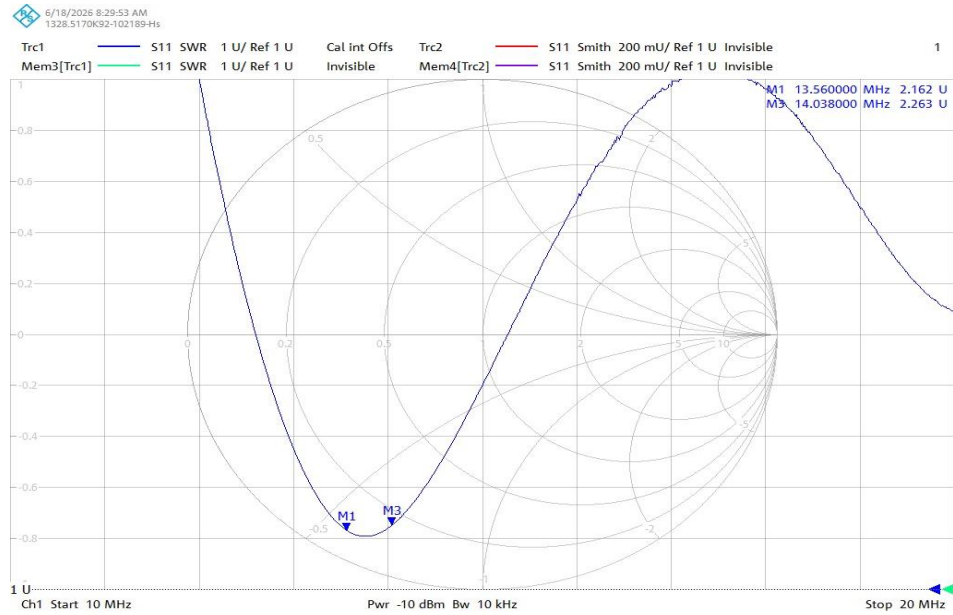
1.1 Organizational characteristics

DIMENSION	50 X 45 mm
ANTENNA - BASE	FCCL + Coverlay + FERRITE
ANTENNA - PATTERN	Copper + ENIG
WEIGHT	0.64g
OPERATING TEMP	20 ± 5 °C
OPERATING HUMIDITY	55 ± 15 %

1.2 Normal Spec.

INPEDANCE	50 ohm
RADIATION PATTERN	Omni – Directional
POLARIZATION	Linear
POWER HANDLING	2W
MATCHING CIRCUIT	Refer to the circuit diagram

2. VSWR



KDT R&D Center

413ho, Dongtan-daero 23-gil, Hwaseong-si, Gyeonggi-do, Republic of Korea