

Justification statement for Antenna

To: Federal Communication Commission
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MID 21046

Regarding: FCC ID: 2AOKB-A25M5

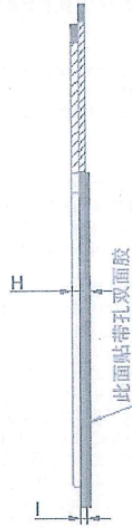
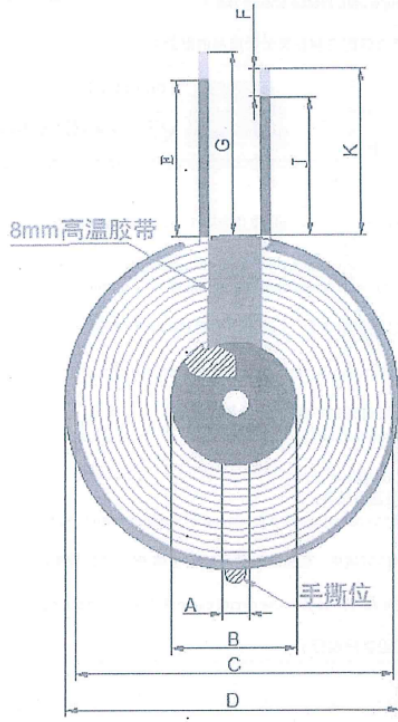
Dear Sir/Madam,

Only radiated measurements are used for EUT with *FCC ID*: 2AOKB-A25M5 to show compliance with FCC limits for fundamental and spurious emissions. All measurements were performed radiated and therefore additional antenna gain documentation is not required.

The detailed information for antenna as below shows:

Design Specifications	Typical
Antenna Type	Loop Antenna
Working Frequency	Output 1 (for iPhone): 119.20-140.80kHz & 356.74-369.62kHz Output 2 (for TWS): 112.40-130.60kHz Output 3 (for iWatch): 324.4276-342.5276kHz
Overall Dimensions	refer to below appearance size

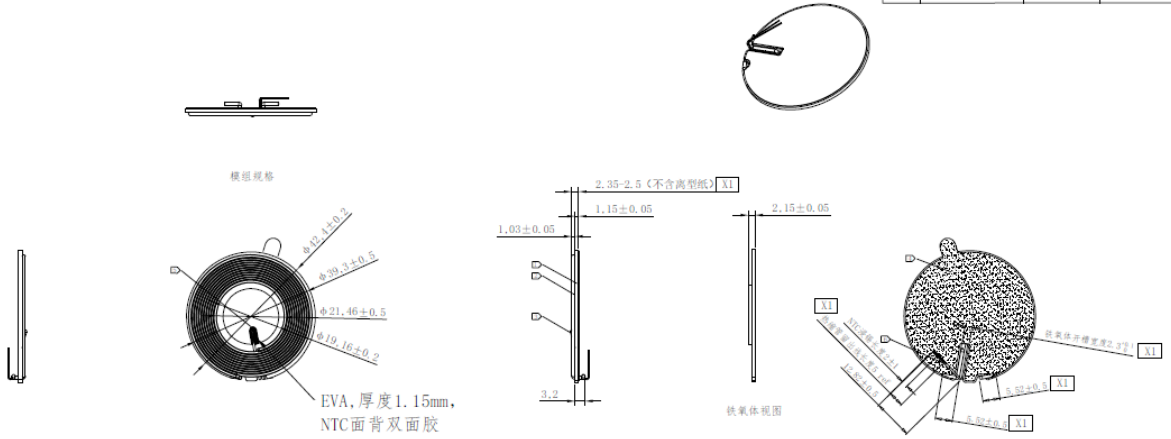
一、外观与尺寸 (Appearance Size) : (单位/mm)



博硕科技
2022.11.28
资料发行章

A	5.0±0.5
B	20.5±0.5
C	44±1.5
D	44±0.5
E	热缩套管 82±2
F	3.5±1.5
G	85±2
H	2.8MAX
I	1.0±0.2
J	热缩套管 76±2
K	79±2
L	
M	
N	
O	
P	
Q	
R	
S	
T	
U	
V	
W	
X	
Y	
Z	

REV.	ECN, RECORD	DATE	APPD.
X0	发行初版	20230427	xu
X1	尺寸修改	20230814	xu



Wire specification				Winding specification		
Diameter	Strands	Strand/cor type	Turns	Strands	Layer	
0.40 (10/0)	05	Grade 2	11	1	1	
Electrical specification				Soldering		
RDC (Max)	RAC (Max)	Inductance	Material	Permeability	Be	
70Ω/cm	150Ω/cm	S. (uH) ± 5%	DWR99	μ* 0.0015±0.001	≥ 5000H	
Test conditions: 360N/1Y						