

Justification statement for Antenna

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

Regarding: FCC ID: 2AOKB-A2932

Dear Sir/Madam,

Only radiated measurements are used for EUT with *FCC ID: 2AOKB-A2932* 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	119.20-140.80kHz & 356.80-369.40kHz
Overall Dimensions	Refer to below appearance size

Ver. 0.6
Release Date 2023-08-31

Documents Name

Doc No.

技术要求:

- Number of turns: 11;
- Litz wire: Type-I, each turn 65 strands of 0.08 wire;
- 线圈贴磁片, 铁氧体开槽, 并增加中心铁氧体;
- 铁氧体背胶3M9448A;
- 背胶需要带离型纸及撕手位;
- 出线展开长度到边缘为5.52mm±0.5mm; 浸锡1~1.5mm;
- 线圈贴合需位于铁氧体中心, 线圈到磁片两边尺寸差值不超过0.5mm;

Wire specification		Winding specification		
Wire size	Strands	Insul-coverage type	Turns	Strands layer
0.08 (0.0031)	65	Grade 2	11	1

Electrical specification		Shielding	
RDC(Max)	RDC(Max)	Material	Permeability
70uV @ 150uV @ 100kHz	0.4uV @ 2.5MHz	3M9448A	>3000

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