



NFC Antenna Data Sheet

Customer Name : Getac

Model Name : SR-RGB36-001

Doc. Version : V1.0

Date : 2024 / 08 / 29

Datasheet Version 1.0

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Revision History

Date	Version	Description	Note
2024/08/29	V1.0	New Release	

Specification:

1. Customer NFC Chip: SN-NSVG7-C01

Antenna type: Loop

2. Basic Specifications:

2.1 Physical Specifications

2.1.1 Assembly:

Parameter	Description	Note
Dimensions	Long side : $50.0 \pm 0.3\text{mm}$ Short side : $35.00 \pm 0.3\text{mm}$ Thickness : $3\text{mm} < \text{Max} >$ (without adhesive release paper & ferrite protect film)	Refer to outline drawing (page 5)

2.1.2 PCB:

Parameter	Description	Note
Material	Substrate : PCB/FR4 Antenna : Copper	Total thickness : 1mm

2.1.3 Connector+Cable:

Parameter	Description	Note
Material	Connector : I-PEX gen 4 Cable : $\varnothing 1.13$, Black	Total length : 37.0mm

2.1.3 Ferrite Sheet:

Parameter	Description	Note
Type	Ferrite sheet	
Structure	Single layer	
Effective carrier frequency	13.56MHz	
Material	Stack up: (1)Adhesive Tape (2)Sintered Ferrite	Total thickness : 0.12± 0.03mm (without release film)

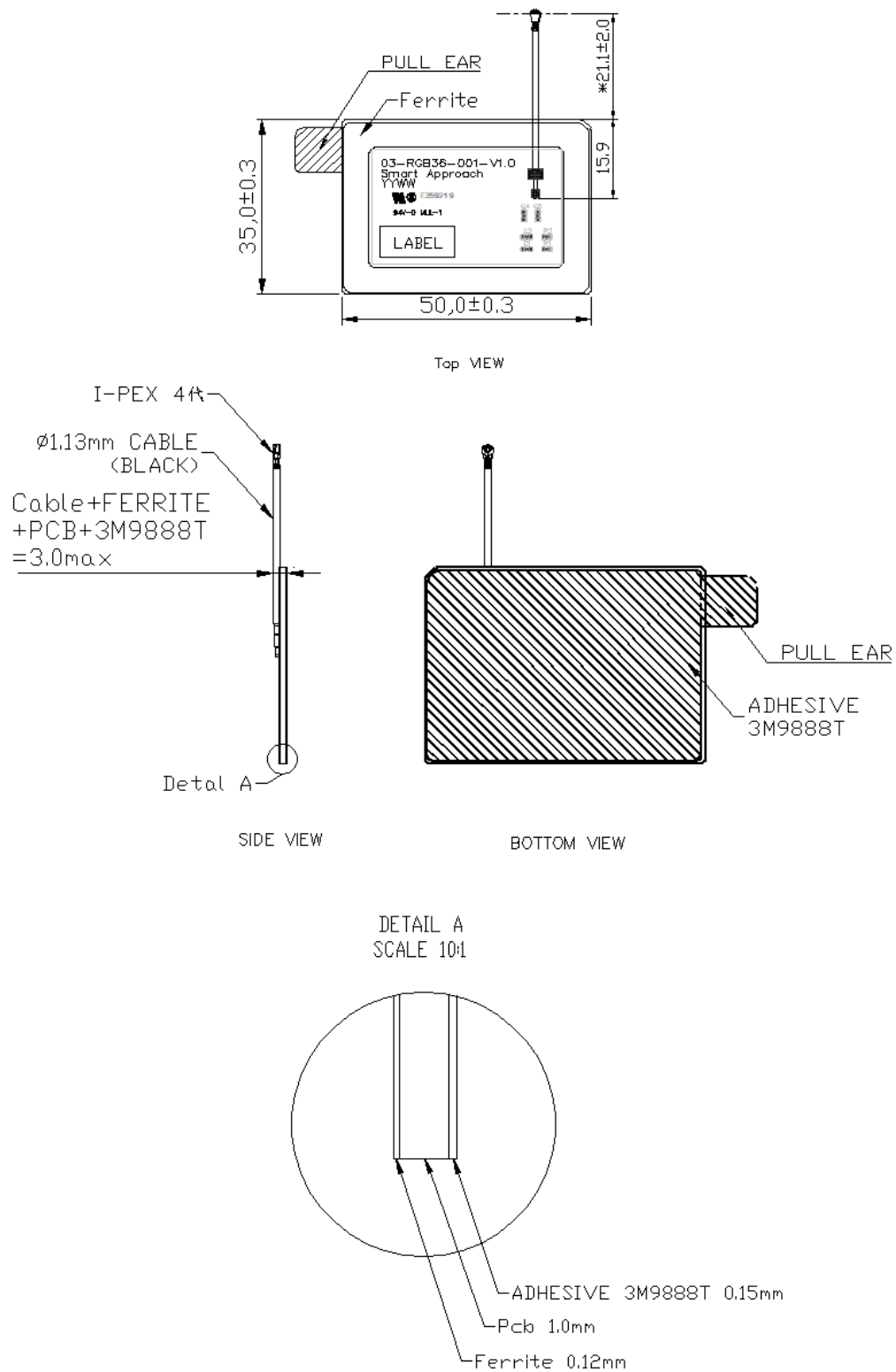
2.1.4 DS Tape:

Parameter	Description	Note
Material	Adhesive Type : 3M9888T	Total thickness : 0.15mm 0.03mm (without release paper)

2.2 Environmental Specifications:

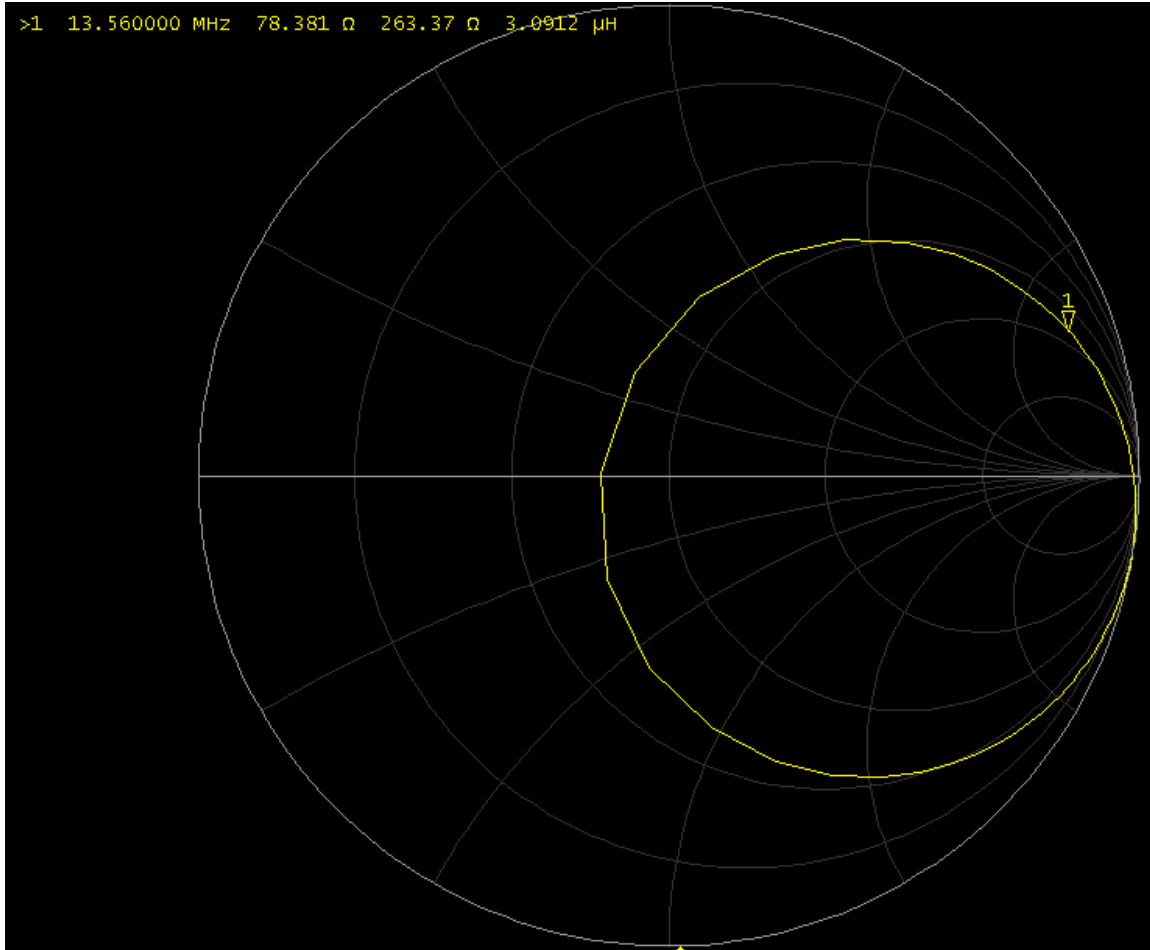
Parameter	Description	Note
Recommended Storage	+25°C @ 40% RH	
Storage Limits	Temperature : -40°C to +80°C Humidity : 20% to 90% RH	Non-condensing
Operating Limits	Temperature : -20°C to +80°C Humidity : 20% to 90% RH	Non-condensing

3. Drawing:



4. Electrical Specifications:

5.1 Smith chart @13.56Mhz



All measurements were performed radiated and therefore additional antenna gain document is not required.