



TAOGLAS®



Datasheet

Stream Series

Part No:
MA2230.A.001

Description

Stream 2-in-1 Active Adhesive Mount Candy Bar Antenna

Features:

Active AM/FM and DAB Antenna

Dims: 200 x 66 x 10.70mm

Connectors:

- DAB - FAKRA CODE A (F)
- AM/FM - FAKRA CODE B (F)
- Power Connector - 2 pin low voltage

Cables:

- DAB – 135mm of RG178
- AM/FM – 135mm of RG178
- Power Cable - 135mm of 18 AWG

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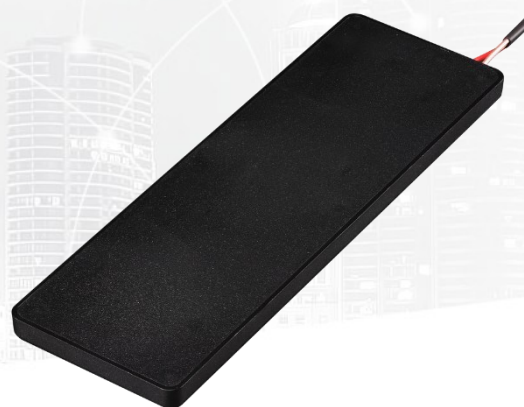
Ireland & USA
ISO 9001:2015
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Taiwan
ISO 9001:2015
Certified



1. Introduction



The Taoglas Stream MA2230 is a next-generation, low-profile 2-in-1 active antenna solution designed to support both AM/FM and Digital Audio Broadcasting (DAB). Engineered for performance and durability, it integrates an internal high-efficiency PCB antenna with a wideband low-noise amplifier, all enclosed in a rugged, high-grade ABS+PC enclosure. This antenna has been developed to meet the rigorous requirements of OEM heavy-duty transportation applications and for use on commercial vehicles and specialized machinery.

The MA2230 delivers reliable radio reception across AM/FM, and DAB frequency bands, ensuring high signal fidelity even in electrically noisy environments. The integrated amplifier features filtering and gain control optimized for these bands, helping to maintain consistent signal quality while minimizing interference from adjacent frequencies and onboard electronics.

The MA2230 is ideal for first-fit or aftermarket integration in:

- OEM automotive infotainment systems
- Long-haul trucks
- Recreational vehicles (RVs) and caravans
- Motorcycles with embedded audio systems
- Agricultural, construction, and other heavy equipment platforms

The antenna comes with 135mm low-loss RG-174 coaxial cables as standard, terminating in FAKRA SMB code B for AM/FM, FAKRA SMB code A for DAB III, and single power wire terminating in a standard connector. Cable length, connector type, housing color, and gain specifications can be customized upon request to suit platform-specific requirements..

For samples or more information, reach out to your Taoglas Technical Customer Support Team

2. Specification

AM Antenna	
AM Radio Bands	535~1605 kHz
Gain	1 dB (typ)

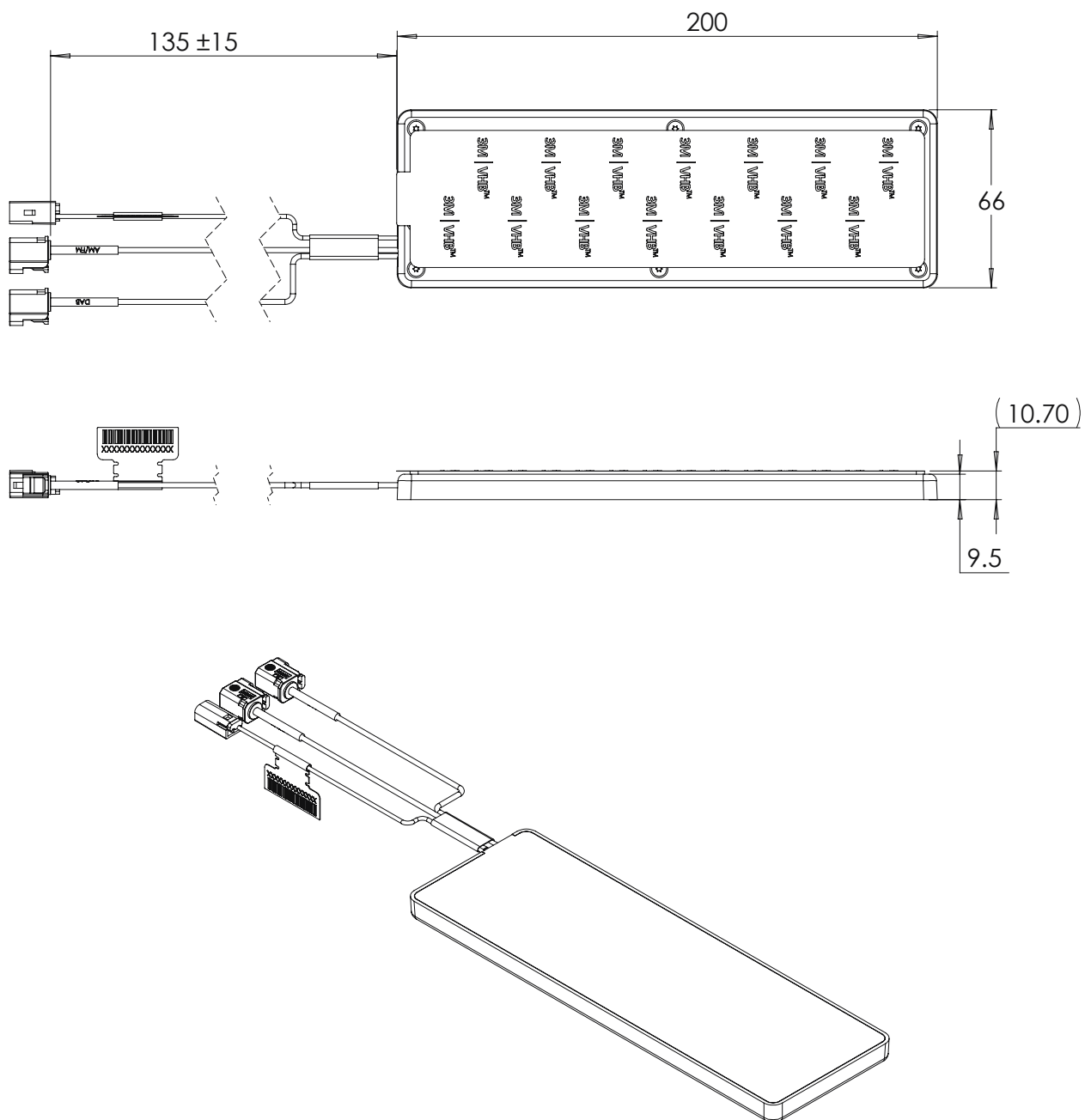
FM Antenna	
Frequency (MHz)	88~108MHz
Gain	14 dB (typ)

DAB Antenna	
Frequency (MHz)	174-240 MHz
Gain	11 dB (typ)
Voltage	5-13V
Current	40mA @ 12V

Mechanical	
Dimensions	200 x 66 x 10.70mm
Material	ASA + PC
Connectors	DAB – FAKRA CODE A (F) AM/FM – FAKRA CODE B (F) Power Connector – 2 pin low voltage
Cables	DAB – 135mm of RG178 AM/FM – 135mm of RG178 Power Cable - 135mm of 18 AWG

Environmental	
Operation Temperature	-40°C - +85°C
Storage Temperature	-40°C - +85°C
Thermal Shock	IEC 60068-2-14
Humidity	Non-condensing 65°C 95% RH
Waterproof	IP41

3. Mechanical Drawing



4. Packaging



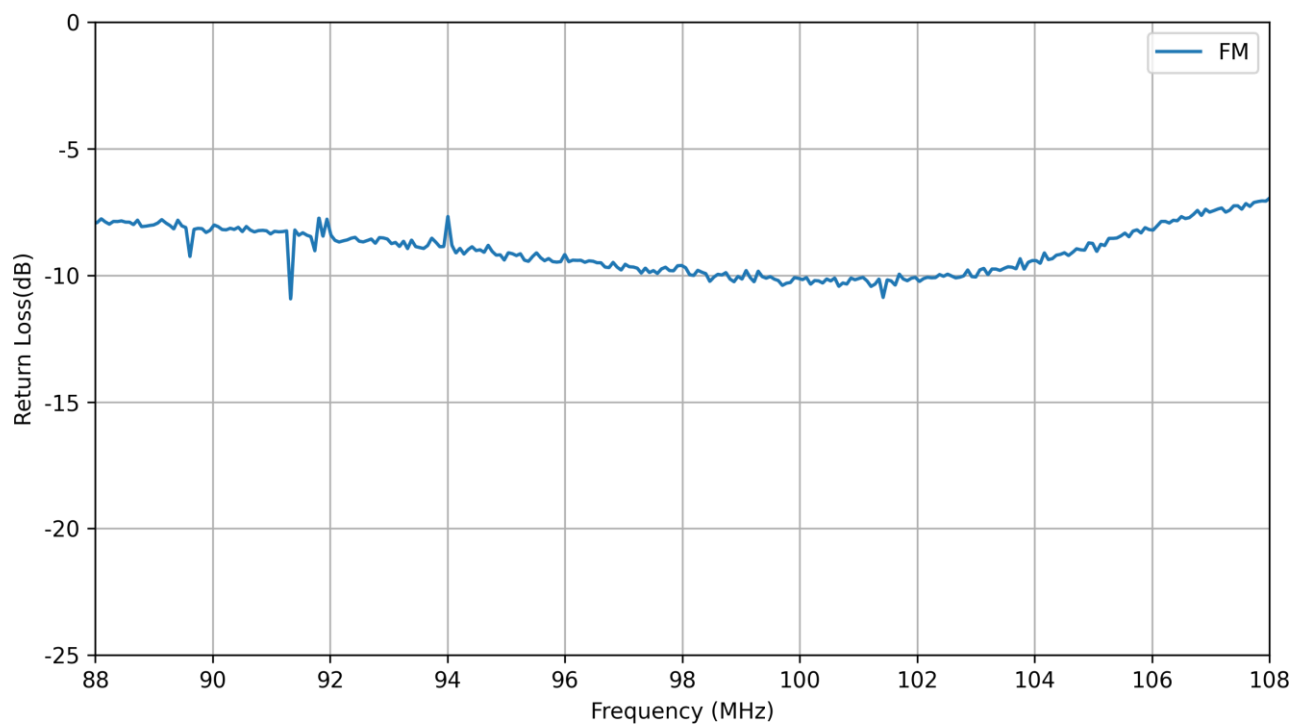
- ☑ 1 PCS / PE bag
- ☑ PE bag(mm): 100 x 330 (Ref)
- ☑ Weight (Kg): 104 ±3%
- ☑ SPQ Label



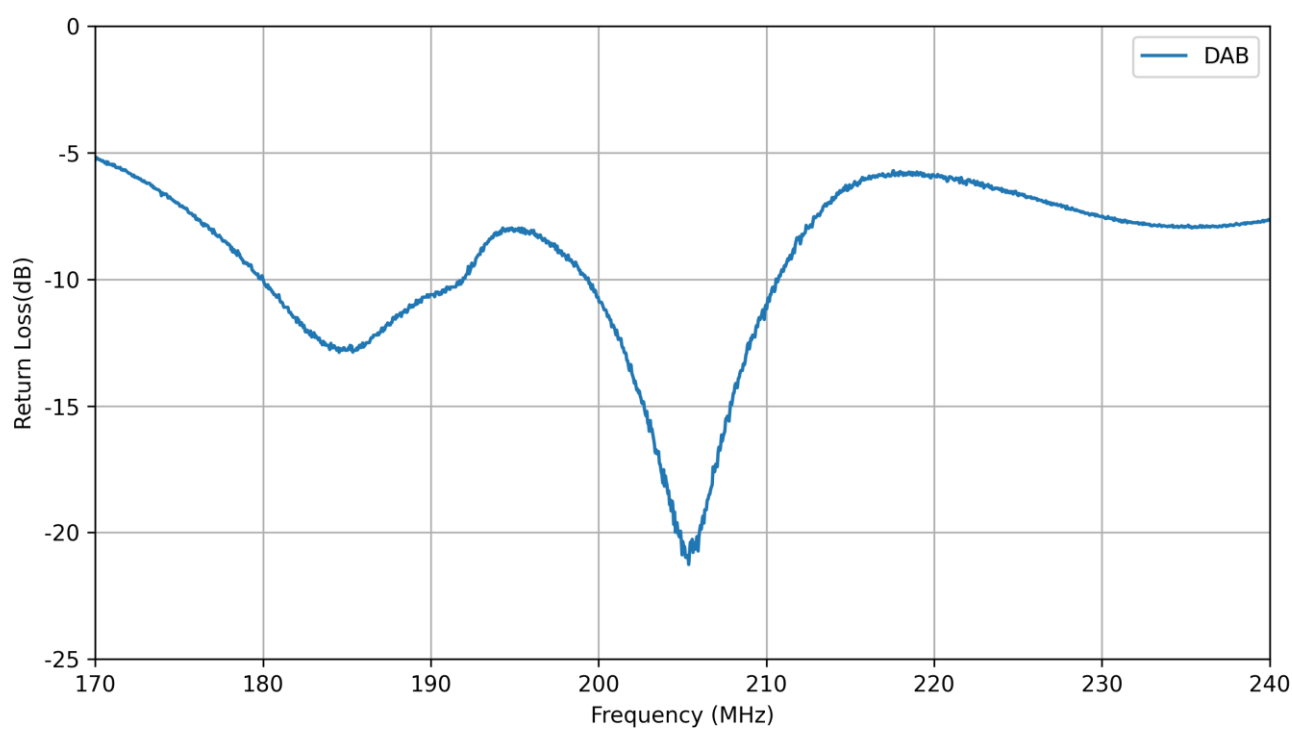
- ☑ 200 PCS / Carton
- ☑ Carton(mm): 465 x 390 x 196
- ☑ Weight (Kg): 12.45 ±3%
- ☑ Carton Label

5. Antenna Characteristics

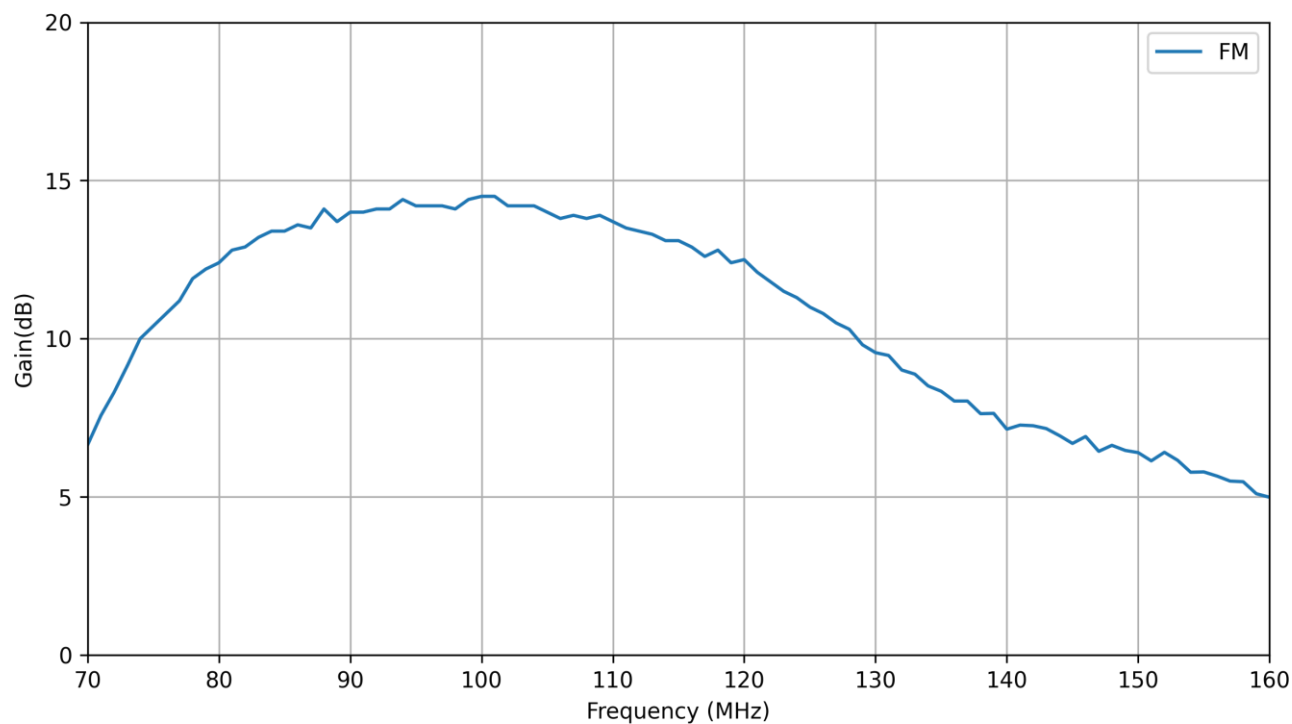
5.1 Return Loss - FM



5.2 Return Loss - DAB

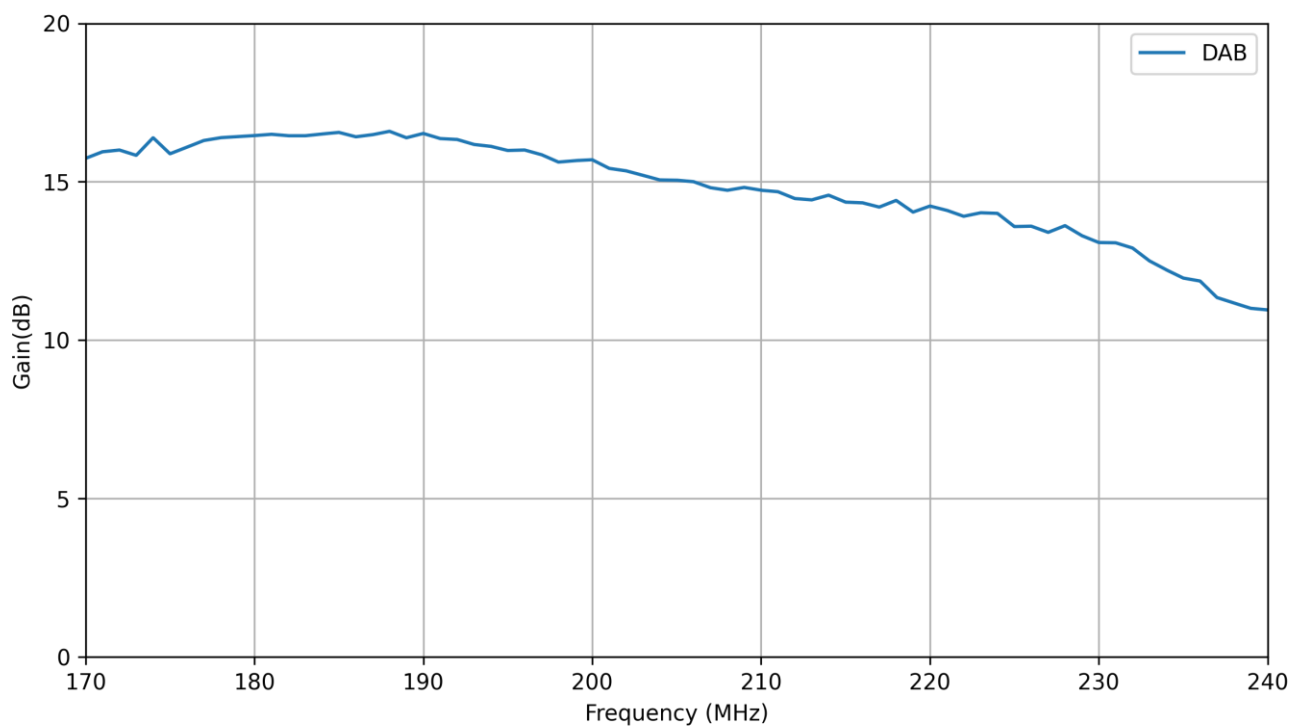


5.3 Gain - FM

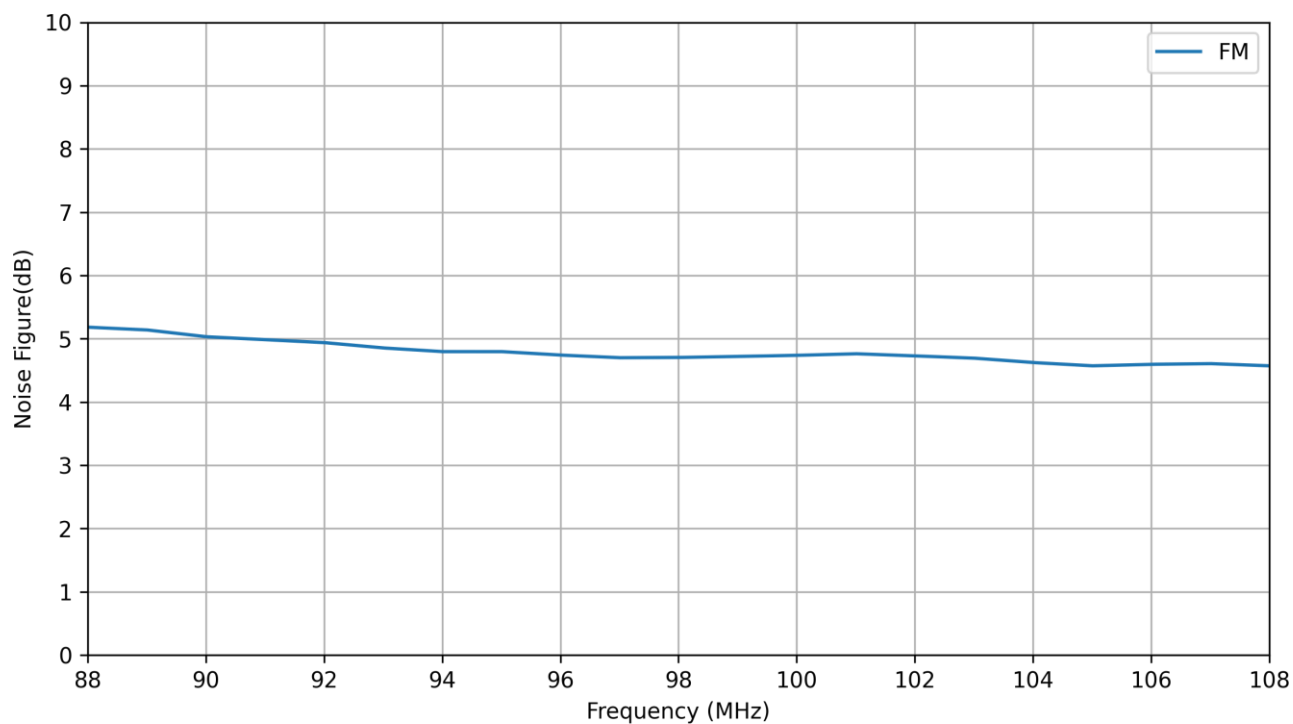


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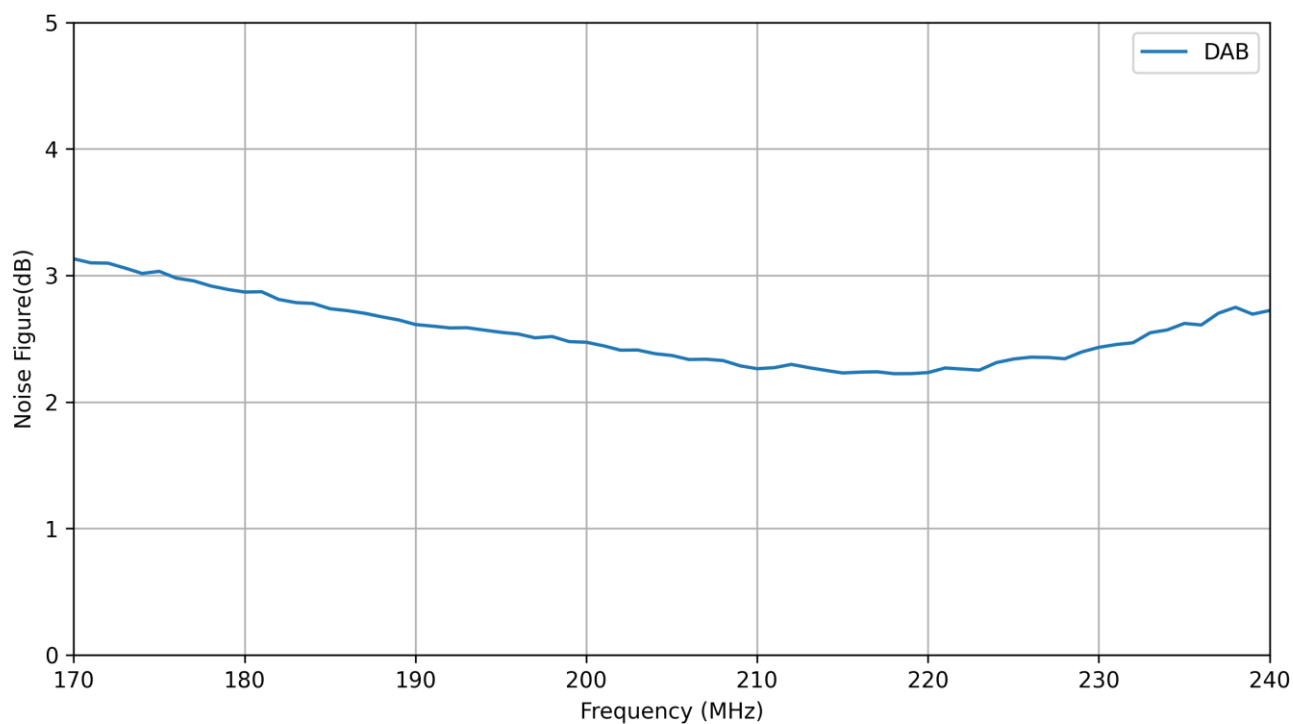
5.4 Gain - DAB



5.5 Noise Figure - FM



5.6 Noise Figure - DAB



6. Installation Recommendation

Installation Instructions

MA2230 Stream Series

2-in-1 Adhesive Mount Combination Antenna



A Introduction

The Taoglas MA2230 is a combination antenna designed for mounting inside the headliner of a vehicle. The MA2230 can accommodate combinations of up to 2 antennas in one sleek housing. No hole is required when installing this antenna, meaning no damage will be done to the vehicle.



Electrical Safety

The MA2230 contains an active AM/FM/DAB antenna.

Rated voltage: 10-16VDC Rated current: 50mA typ

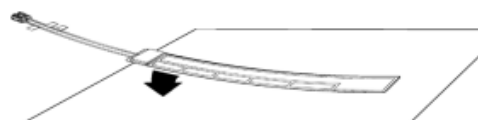
The supply to this device must be provided with over-current protection of 1A maximum.

Power consumption@10V (mA) 50 mA



B Mounting & Location

The MA2230 is designed to be mounted inside the headliner of a vehicle but can also be mounted in other areas of the vehicle, such as the dashboard, the cab and even the windscreen due to the flexibility of the metalized PET film liner.



C Installation of the Antenna

The antenna comes with 3M adhesive already attached. To install the antenna, clean the surface that the antenna will be adhered to. Remove the liner from the adhesive tape from the base of the antenna and then firmly press the film onto the mounting surface, taking care to avoid any trapped air.



Mounting

Please take care when mounting to ensure the antenna is at least 50mm above metal and at least 25mm away (edge to edge) from metal structures

D Routing and Connection of the Cables

The Cables supplied are RG-174 for both feeds. The cables are denoted by labels for ease of installation. Connect each individual connector to the correct port on your device. If any cable is unused, please fit a 50Ω terminator to the individual connection.

E Notices



Caution

To comply with FCC RF Exposure requirements in section 1.1310 of the FCC Rules, antennas used with this device must be installed to provide a separation distance of at least 20 cm from all persons to satisfy RF exposure compliance.



Warning

Do not Operate the transmitter when someone is within 20 cm of the antenna.
Do not operate the equipment in an explosive atmosphere



European Waste Electronic Equipment Directive 2002/96/EC

Please ensure that your old Waste Electricals and Electronics are recycled do not throw them away into standard waste.

Waiver: This document represents information compiled by Taoglas to the best of our current knowledge. This is not intended to be used as a representation or warranty of fitness of the products described for any particular purpose. This document details guidelines for general information purposes only. When planning installations, always seek specialist advice and ensure that the products are always installed by a properly qualified installer in accordance with applicable regional laws and regulations.



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Changelog for the datasheet

SPE-24-8-284 – MA2230.A.001

Revision: A (Initial Release)

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Notes:	Initial Datasheet Release
Author:	Gary West

Previous Revisions



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