



TAOGLAS®



Datasheet

Part No:

Black - FW.38.M6.F

White - FW.38.M6.F.W

Description

380-400MHz Flexible Whip Antenna with M6 female connector

Features:

Flexible Whip Antenna
Frequency: 380-400MHz
IP67 Waterproof Rated Enclosure
Dimensions: Ø14 x 164 mm
M6 female connector
RoHS Compliant

1.	Introduction	3
2.	Specification	3
3.	Mechanical Drawing	5
4.	Packaging	6
5.	Antenna Characteristics	7
	Changelog	9

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1. Introduction



The FW.38 is a compact, flexible whip antenna designed for reliable performance within the 380–400MHz frequency band. Engineered with an M6 female connector, this antenna is ideal for mission-critical applications requiring durable and secure RF connectivity in demanding environments.

Its robust POM housing and wide operating temperature range ensure consistent performance across various industrial and commercial use cases. With optimized return loss and VSWR characteristics, the FW.38 offers an efficient solution for devices requiring compact form factor antennas without compromising RF performance.

Typical Applications:

- Private Mobile Radio (PMR) systems
- Land Mobile Radio (LMR) equipment
- Emergency services communications (police, fire, ambulance)
- Military and defense communication gear
- Transportation and logistics communication systems

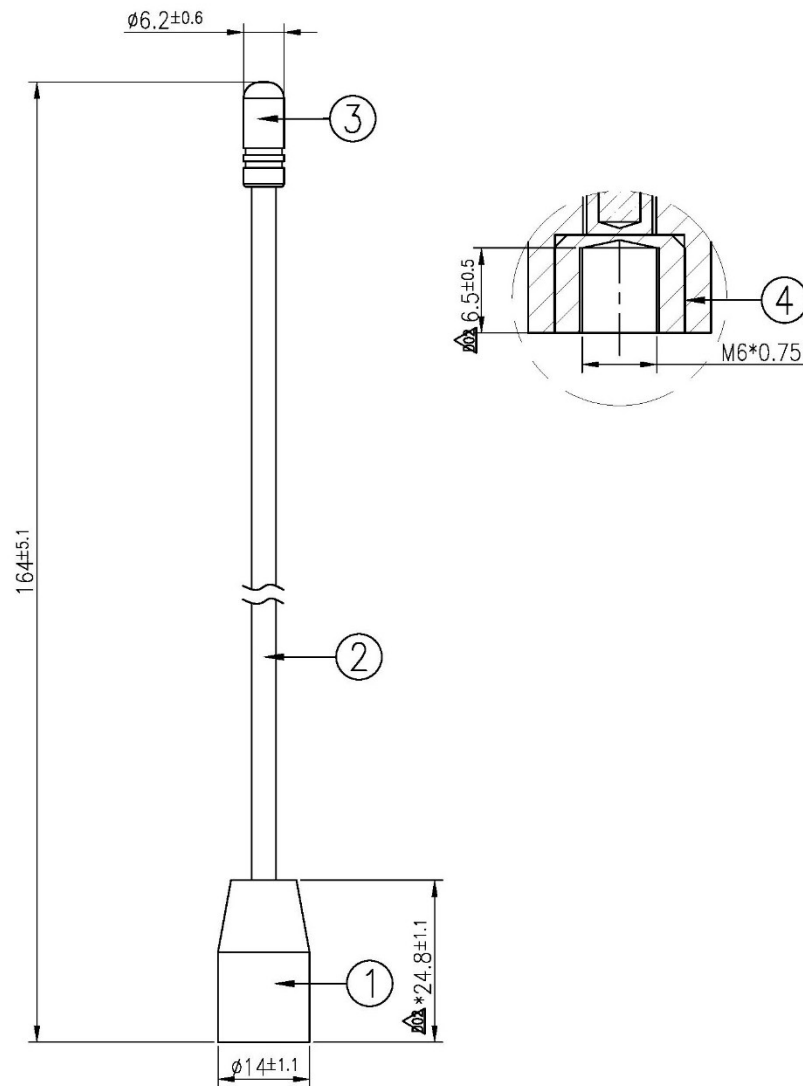
The FW.38 connector can be customized subject to NRE, for further information please contact your regional Taoglas customer support team.

2. Specification

Mechanical	
Dimensions	Ø14 x 164 mm
Weight	15.91g
Material	POM
Connector	M6 Connector

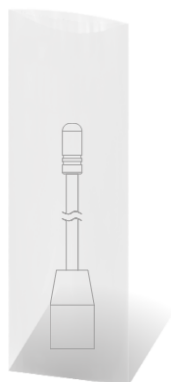
Environmental	
Waterproof Rating	IP67
Operation Temperature	-40°C to 85°C
Storage Temperature	-40°C to 85°C
Relative Humidity	Non-condensing 65°C 95% RH

3. Mechanical Drawing



	Name	Material	Finish	QTY
1	Housing	POM	Black	1
2	Whip	Stell+PE Jacket	Black	1
3	Cap	POM	Black	1
4	M6 Connector	Brass	Ni Plated	1

4. Packaging



- ✓ 1 PCS / Small PE bag
- ✓ Weight (g): 15.91 ±3%



- ✓ 50 PCS / PE bag
- ✓ Weight (g): 795.5 ±3%
- ✓ SPQ Label



- ✓ 200 PCS / Carton
- ✓ Carton(mm): 360x310x160
- ✓ Weight (Kg): 3.2 ±3%
- ✓ Carton Label

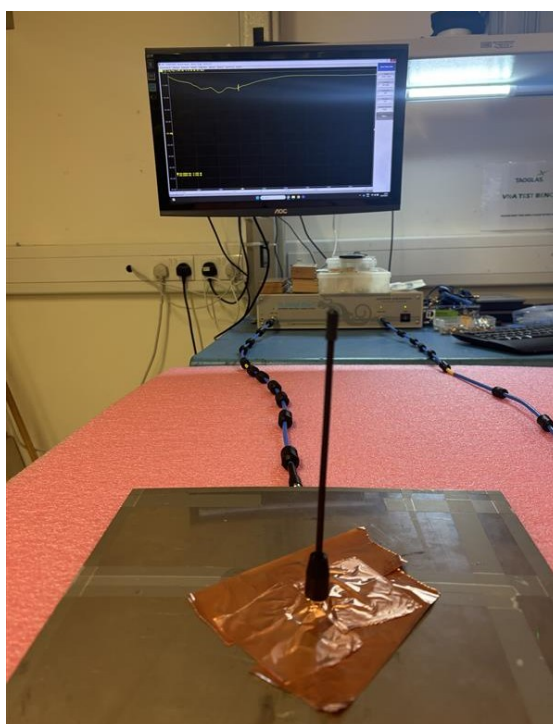
5. Antenna Characteristics

5.1 Test Setup

AUT

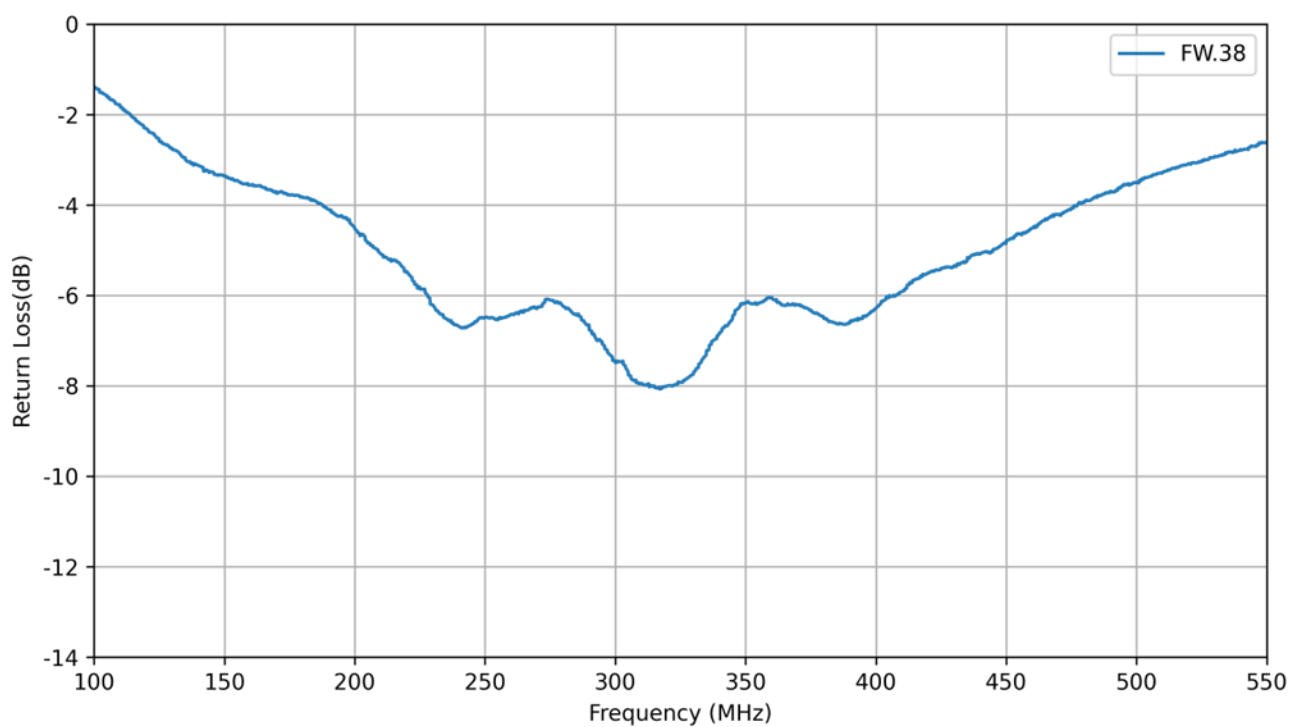


Vector Network Analyzer

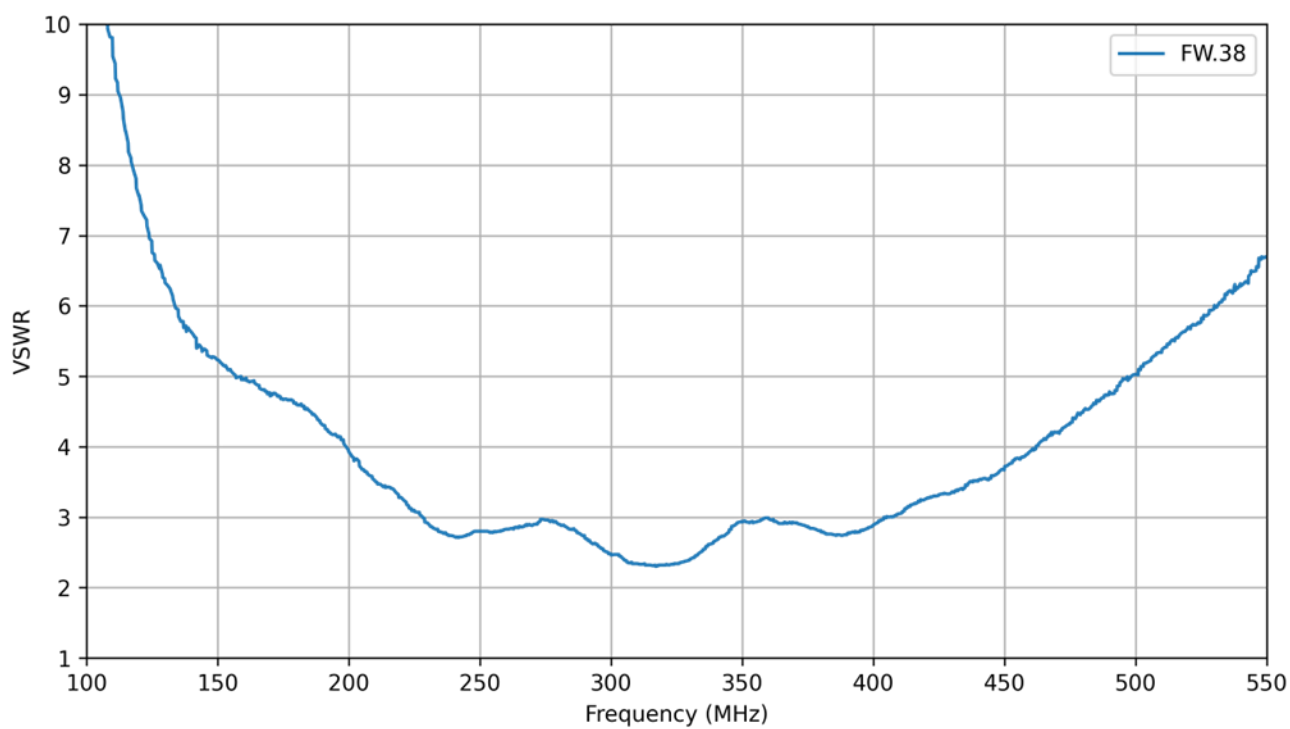


Test Set-up on 30x30cm Ground Plane

5.2 Return Loss



5.3 VSWR



Changelog for the datasheet

SPE-25-8-200 – FW.38.M6.F

Revision: A (Original First Release)	
Date:	2025-07-16
Notes:	Initial Release
Author:	Gary West

Previous Revisions

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