



Description:

FW.81.SMA.M

Meteor 135MHz OdBi Flexible Whip Monopole Omnidirectional Antenna SMA Male connector

Features:

IP65 Housing
1/4 Wavelength
Robust but Flexible Inner Steel Whi
High Efficiency Outdoor Antenna
Advanced RF Design and Materials



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The Meteor FW.81 is a OdBi 135MHz ISM band 1/4 wavelength monopole flexible whip antenna with omnidirectional pattern optimized in the azimuth for wide coverage range in typical 135MHz applications such as Wireless M-Bus metering. It is also used in remote asset monitoring applications, alarms, paging systems and private mobile radio services.

The Meteor has an IP65 housing. The antenna like all low frequency monopole antennas needs to be mounted to a metal plate to radiate.

For a waterproof integration to a metal box a waterproof panel mount SMA connector or cable assembly can be provided. TNC and N-type antenna versions are also available.

This whip is made up of a flexible inner steel core covered by TPU so extremely resistant to collisions and maintaining its original shape and RF performance.

Customized frequency and gain versions can be supplied.



2. Specifications

Meteor FW.81				
Frequency (MHz)	135			
Peak Gain (dBi) *	OdBi			
Average Gain (dBi) *	-3.9			
Efficiency (%) *	40%			
Impedance (Ω)	50			
Polarization	Linear			
Radiation Pattern	Omnidirectional			
Input Power(W)	50			
Tested Power(W)	10			
	Mechanical			
Dimensions (mm)	353хф16			
Base Diameter (mm)	ф16			
Whip Diameter (mm)	ф4			
Casing	ABS			
Connector	SMA(M)			
Environmental				
Temperature Range	-40°C to 85°C			
Humidity	Non-condensing 65°C 95% RH			

^{*} For low frequency antennas these parameters can only be estimated using RF formula calculation, simulation or rough field test comparisons with large benchmark antennas.

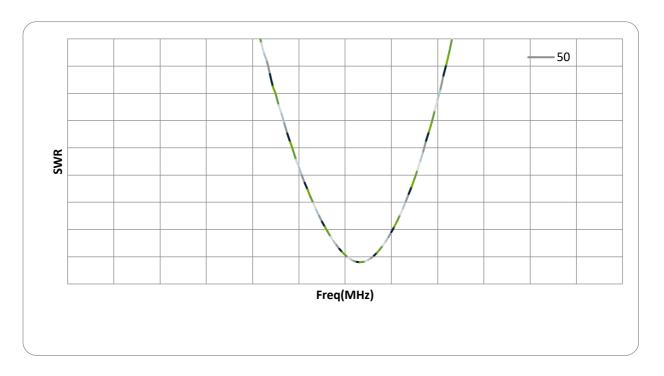


3. Antenna Characteristics

3.1 Antenna Setup

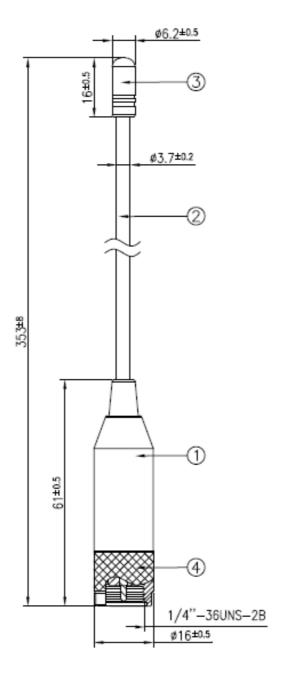
Antenna is placed on metal ground 30x30cm

3.2 SWR (on metal ground plane 30x30cm)





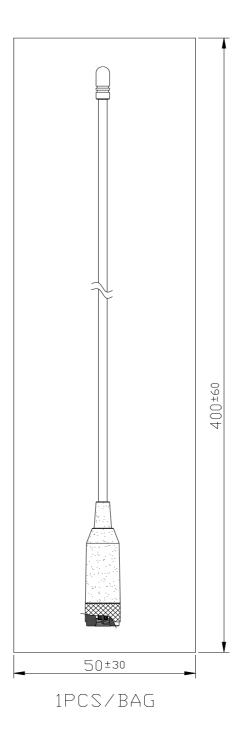
4. Mechanical Drawing (Units: mm)



	Name	P/N	Material	Finish	QTY
1	Housing	000113A000002A	ABS	Black	1
2	Flexible Whip	000113A000002A	Steel+PE Jacket	Black	1
3	Сар	000713A000002A	POM	Black	1
4	Outer Body SMA(M)	000613A000002A	Brass	Black	1



5. Packaging





Changelog for the datasheet

SPE-12-8-034 - FW.81.SMA.M

Revision: E		
Date:	2019-08-16	
Changes:	Updated to new format	
Changes Made by:	Dan Cantwell	

Previous Revisions

Revision: D (Current Version)		
Date:	2017-04-08	
Changes:	Updated as per PCN PCN-17-8-088	
Changes Made by:	Andy Mahoney	

Revision: C		
Date:	2012-15-10	
Changes:		
Changes Made by:	SS	

Revision: B		
Date:	2012-26-07	
Changes:		
Changes Made by:	SS	

Revision: A (Original First Release)		
Date:	2012-02-04	
Notes:		
Author:	SS	



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