

### Meteor

Part No: FW.80.SMA.M

#### **Description:**

Meteor 169MHz 0dBi Flexible Whip Monopole Omni-Directional Antenna SMA Male connector

#### Features:

1/4 Wavelength Robust but Flexible Inner Steel Whip High Efficiency Outdoor Antenna Advanced RF Design and Materials RoHS Compliant IP65 dust and water-resistant



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### 1. Introduction



The Meteor FW.80 is a 0dBi 169MHz ISM band 1/4 wavelength monopole flexible whip antenna with omnidirectional pattern optimized in the azimuth for wide coverage range in typical 169MHz applications such as Wireless M-Bus metering. It also finds its usage in remote asset monitoring applications, alarms, paging systems and private mobile radio services.

The Meteor, 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.

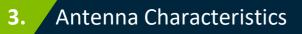


## Specifications

Meteor FW.80					
Frequency (MHz)	169				
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)	353xф16				
Base Diameter (mm)	ф16				
Whip Diameter (mm)	φ4				
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.

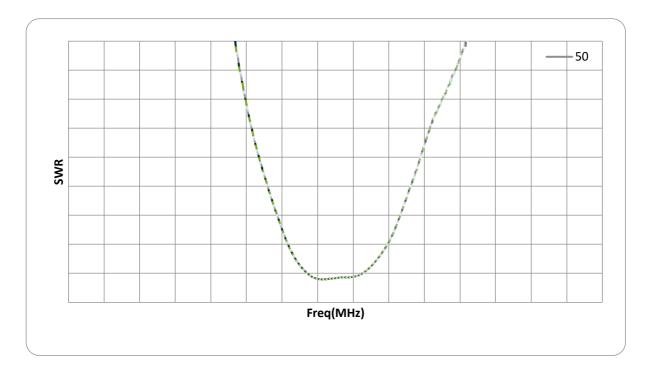




3.1 Antenna Setup

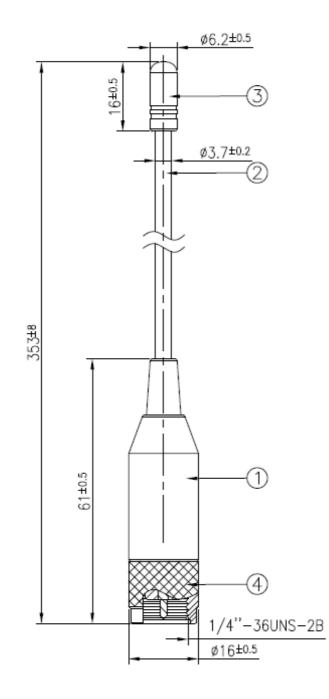
Antenna is placed on metal ground 30x30cm

### 3.2 SWR (on metal ground plane 30x30cm)





## Mechanical Drawing (Units: mm)



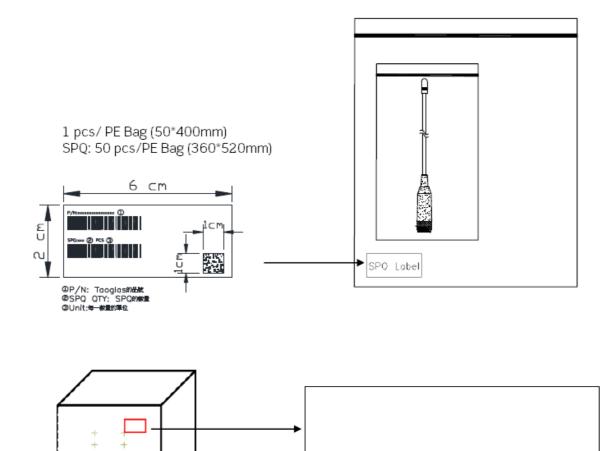
	Name	P/N	Material	Finish	QTY
1	Housing	000113A000002A	ABS	Black	1
2	Flexible Whip	000113A000002A	Steel+PE Jacket	Black	1
3	Cap	000713A000002A	POM	Black	1
4	Outer Body SMA(M)	000613A000002A	Brass	Black	1

4.



## Packaging

5.



Shipping Label

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200 pcs/Carton (360\*310\*160mm)



Changelog for the datasheet

#### SPE-12-8-033 - FW.80.SMA.M

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

#### **Previous Revisions**

Revision: F (Current Version)		<b>Revision: A (Origina</b>	l First Release)
Date:	2018-10-15	Date:	2012-04-02
Changes:	Updated IP rating from IP67 to IP65	Notes:	
Changes Made by:	David Connolly	Author:	SS

Revision: E	
Date:	2017-04-08
Changes:	Updated as per pcn -16-8-075
Changes Made by:	Andy Mahoney

Revision: D		
Date:	2016-02-12	
Changes:		
Changes Made by:	SS	

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

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



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