

VHF WHIP Antenna

MODEL: TH-191



1. GENERAL DESCRIPTION

P/N
TH-191-SMA(M)

Below is a table summarizing the antenna design specification.

1.1 Electrical Properties

Parameter	Description
Frequency Band	191MHz on GND
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.0 : 1
Note: Gain includes the cable loss	

1.2 Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	SMA (Male)
Antenna Dimensions	335mm ±10
Antenna Color	Black
Operating Temperature Range	-30°C~+70°C

Storage Temperature Range	-30°C~+70°C
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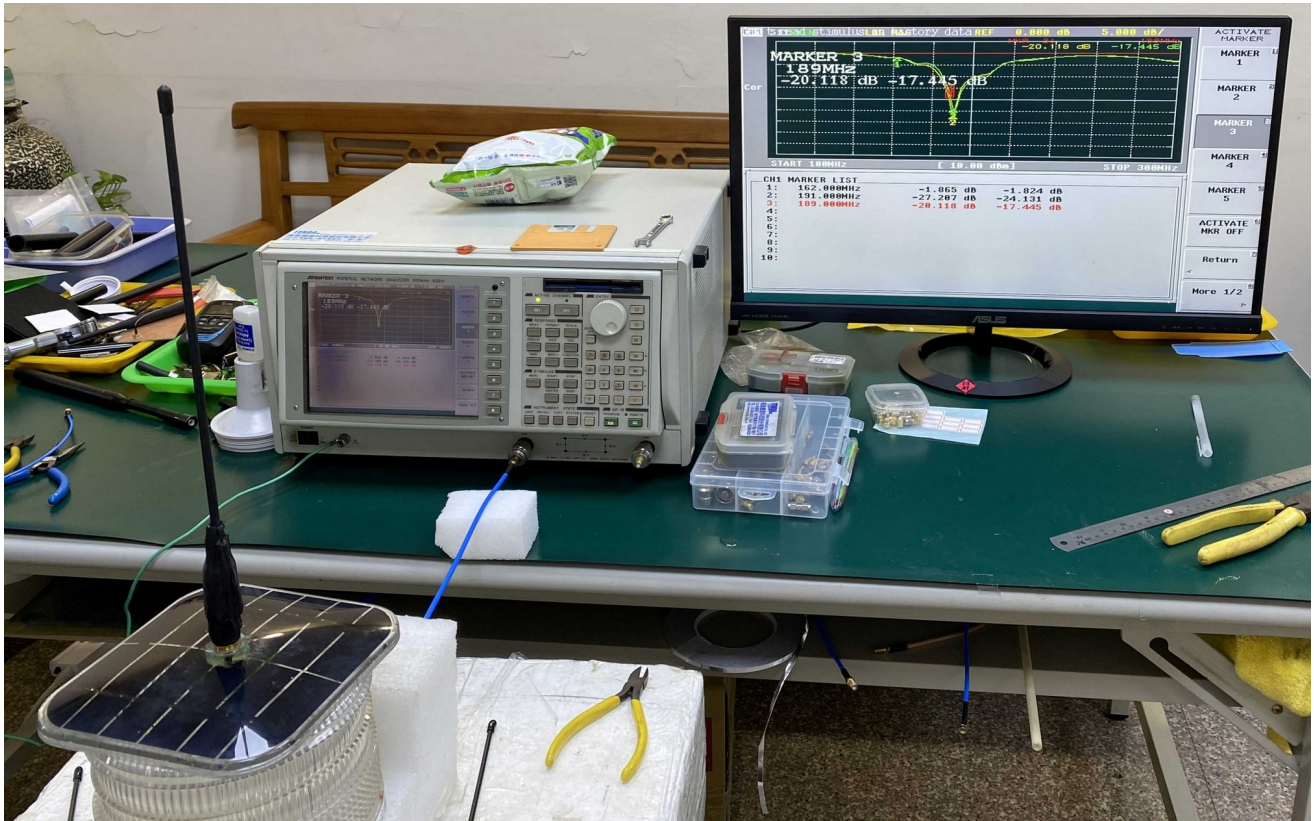
2. Appearance

NO.	MANE	FINISH	Q, TY
01	TOP	Black	01
02	Heat-shrink tube	Black	01
03	Core tube	Black	01
04	SMA (Male)	Chrom plating	01

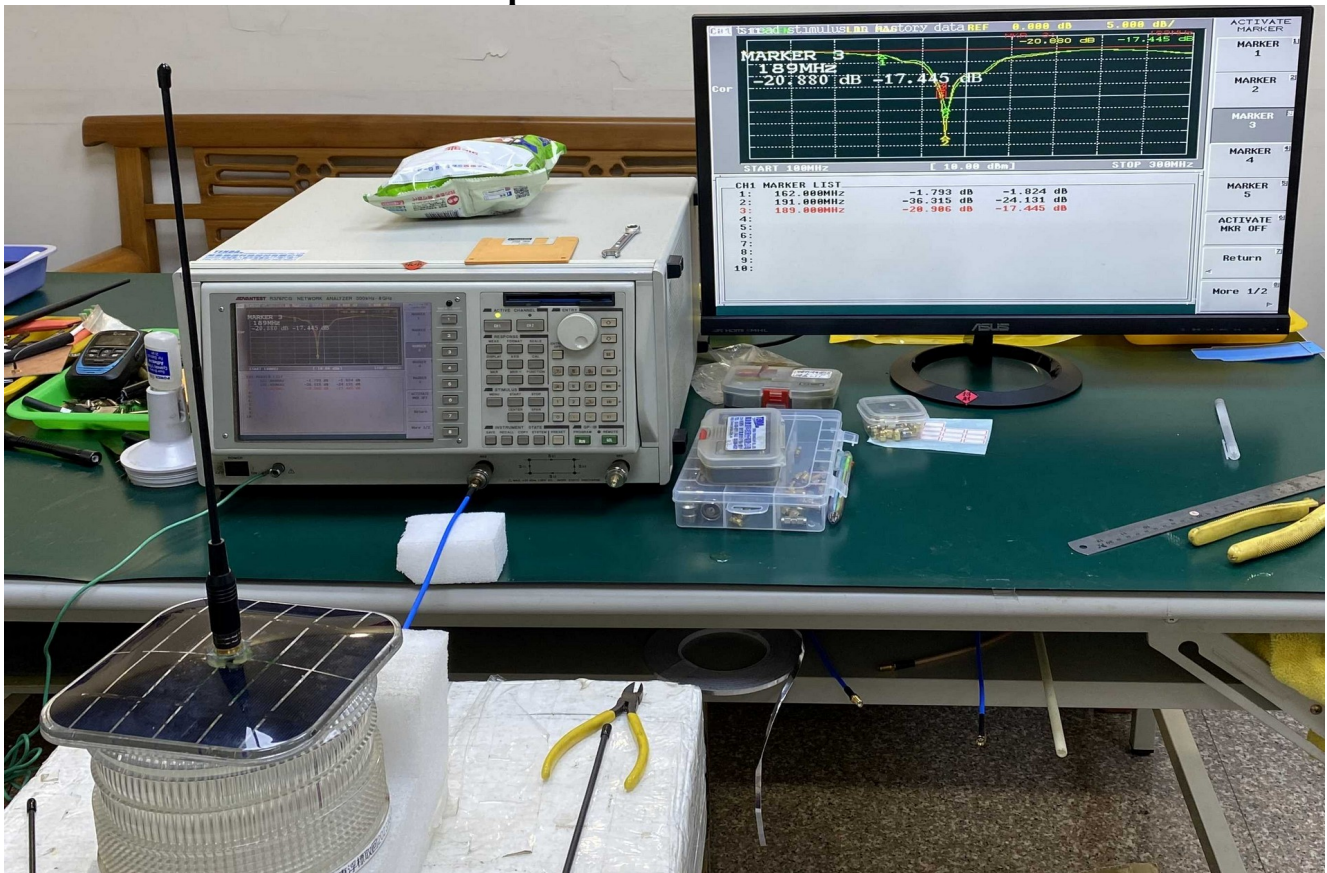
335+/-10

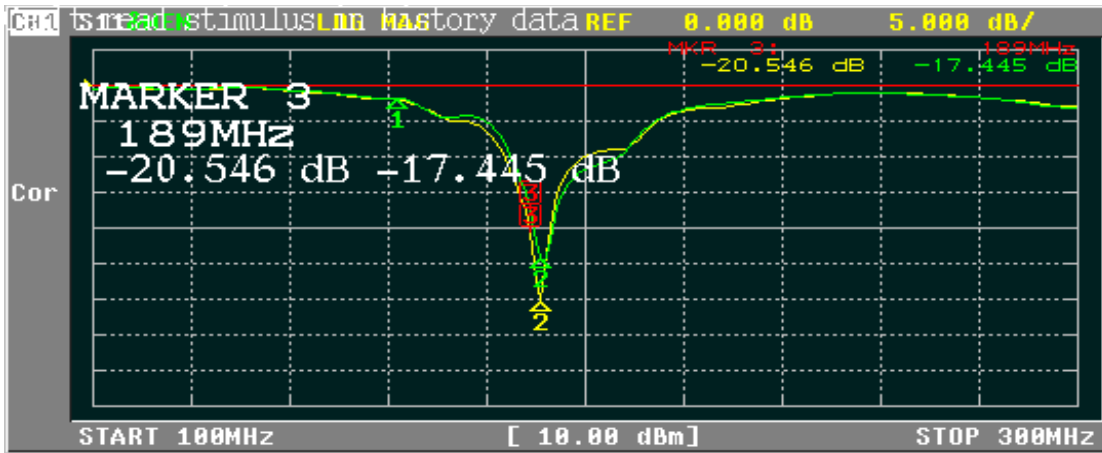
 Third angle projection	CUSTOMER' S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
		TH-191		191Mhz	M/M		20240613	1
	TOLERANCE	X. XX±0. 15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
SURFACE ROUGHNESS	$\frac{S}{\sqrt{\nabla}}$	APPEARANCE						

3. V.S.W.R. : Customer samples & Test Tools



3.1 V.S.W.R. for Customer samples & Test Tools





CH1 MARKER LIST

1:	162.000MHz	-1.899 dB	-1.824 dB
2:	191.000MHz	-30.203 dB	-24.131 dB
3:	189.000MHz	-20.664 dB	-17.445 dB
4:			
5:			
6:			
7:			
8:			
9:			
10:			

ACTIVATE MARKER

MARKER 1

MARKER 2

MARKER 3

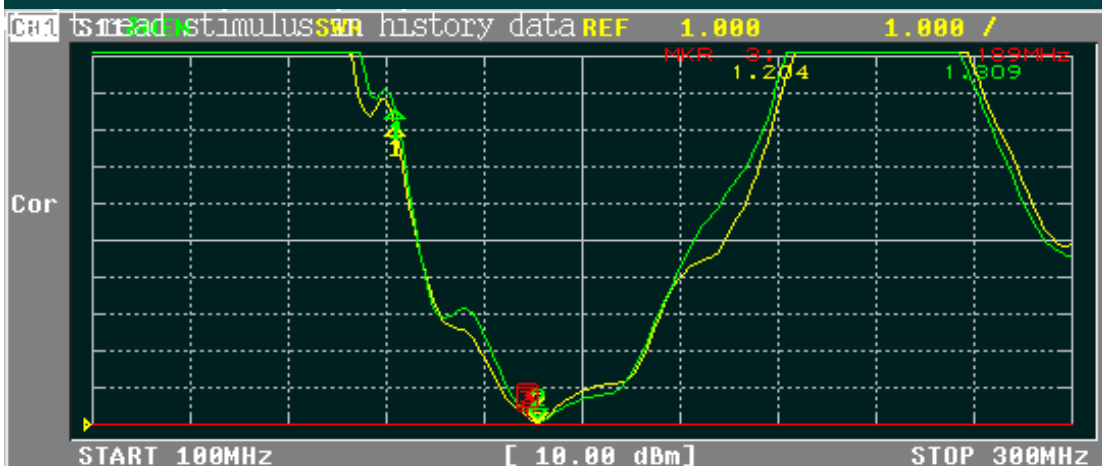
MARKER 4

MARKER 5

ACTIVYATE MKR OFF

Return

More 1/2



CH1 MARKER LIST

1:	162.000MHz	9.078	9.556
2:	191.000MHz	1.059	1.132
3:	189.000MHz	1.204	1.309
4:			
5:			
6:			
7:			
8:			
9:			
10:			

FORMAT

SWR

REAL

IMAG

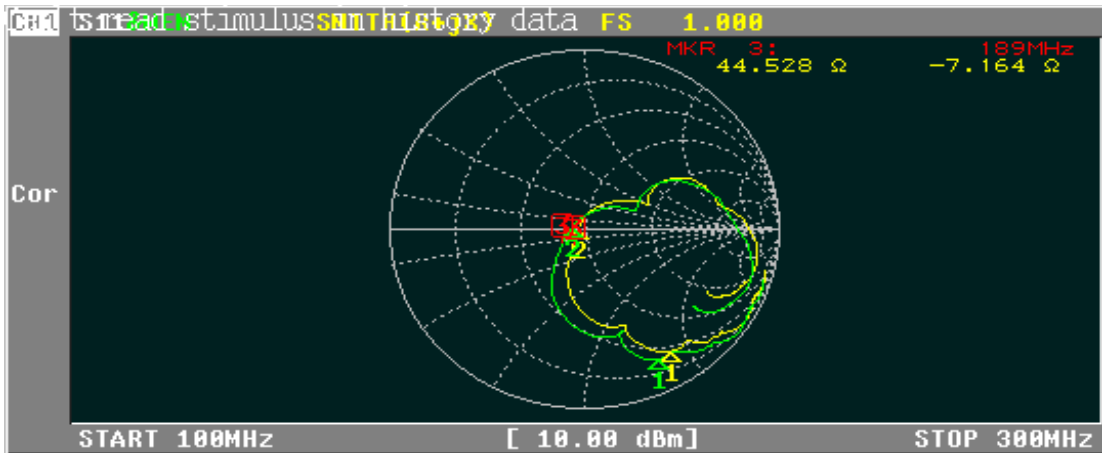
PHASE
-∞, +∞

LOG MAG & PHASE

LOG MAG & DELAY

LIN MAG & PHASE

More 2/2



CH1 MARKER LIST

1:	162.000MHz	22.991 Ω	-86.836 Ω	11.313pF
2:	191.000MHz	47.146 Ω	299.881mΩ	249.883pH
3:	189.000MHz	44.528 Ω	-7.164 Ω	117.533pF
4:				
5:				
6:				
7:				
8:				
9:				
10:				

FORMAT

LOG MAG 1

PHASE 2

DELAY 3

SMITH (R+jX) 4

SMITH (G+jB) 5

POLAR 6

LIN MAG 7

More 1/2 8