

UHF Antenna

MODEL: TH-470B



1. GENERAL DESCRIPTION

| Model No |
|---------------|
| TH470B-SMA(M) |

Below is a table summarizing the antenna design specification.

1.1 Electrical Properties

| Parameter | Description |
|-------------------|--------------------------------|
| Frequency Band | 450~490MHz (Fo:470Mhz) ON GND |
| Nominal Impedance | 50 ohm |
| Polarization | Vertical |
| Return Loss | Please See Data-1 |
| V.S.W.R | 2.0 : 1 |
| Gain | 0-3db |

1.2 Mechanical Properties

| Parameter | Description |
|-----------------------------|-------------------------|
| Antenna Type | External Antenna |
| Antenna Material | ASA-UV |
| Touch Type | Screw Type |
| Connector Type | SMA 180°(Male) OD10.0mm |
| Antenna Dimensions | OD9.3 x 128.5mm ±0.5 |
| Antenna Color | Black |
| Operating Temperature Range | -40°C~+80°C |
| Storage Temperature Range | -40°C~+80°C |

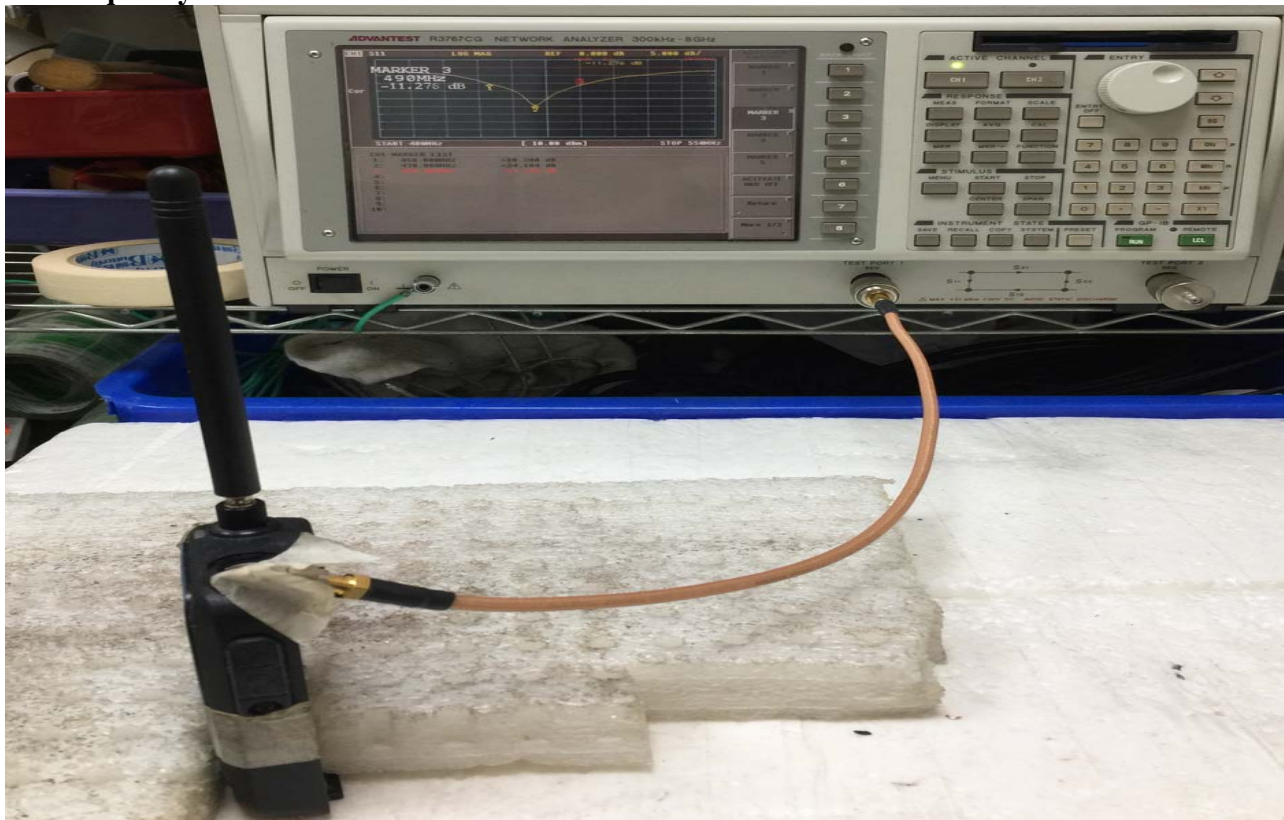
2. Appearance

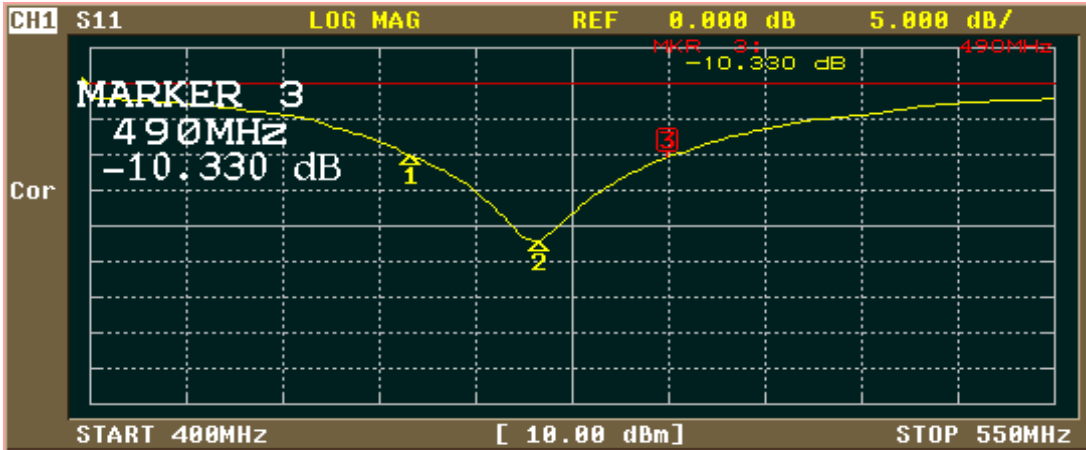
| NO. | NAME | Q, TY |
|-----|-------------|-------|
| 01 | ASA-UV Tube | 01 |
| 02 | SMA(M) | 01 |



| | | | | | | | | |
|----------------------------|-------------------|--------------|--------------|--------------|----------|---------|----------|----------|
| Third angle projection | CUSTOMER'S | MODEL | PARTS NUMBER | FREQUENCY | UNIT | SCALE | DATE | VERSION |
| | | TH-470 | | | M/M | | 20181130 | 1 |
| | TOLERANCE | X. XX ± 0.15 | NAME | PARTS NUMBER | APPROVED | CHECKED | DRAWING | DESIGNED |
| | SURFACE ROUGHNESS | \sqrt{S} | APPEARANCE | | | | | |

3. Frequency



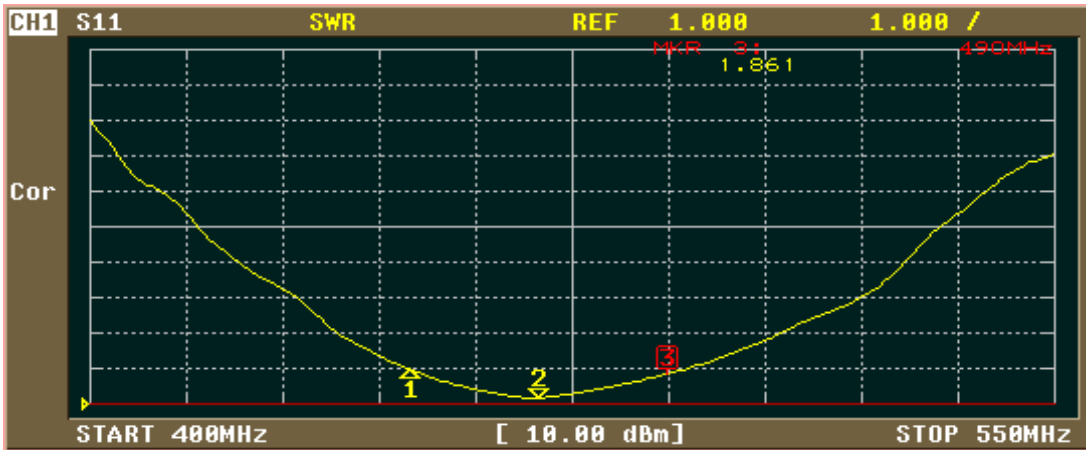


CH1 MARKER LIST

| | | |
|-----|------------|------------|
| 1: | 450.000MHz | -10.131 dB |
| 2: | 470.000MHz | -22.034 dB |
| 3: | 490.000MHz | -10.330 dB |
| 4: | | |
| 5: | | |
| 6: | | |
| 7: | | |
| 8: | | |
| 9: | | |
| 10: | | |

ACTIVATE MARKER

- MARKER 1
- MARKER 2
- MARKER 3
- MARKER 4
- MARKER 5
- ACTIVATE MKR OFF
- Return
- More 1/2

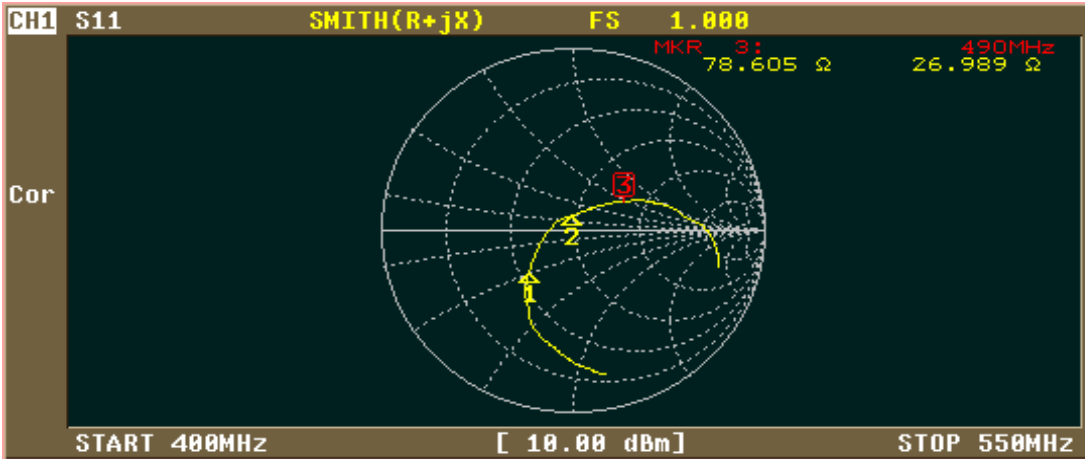


CH1 MARKER LIST

| | | |
|-----|------------|-------|
| 1: | 450.000MHz | 1.940 |
| 2: | 470.000MHz | 1.176 |
| 3: | 490.000MHz | 1.861 |
| 4: | | |
| 5: | | |
| 6: | | |
| 7: | | |
| 8: | | |
| 9: | | |
| 10: | | |

FORMAT

- SWR
- REAL
- IMAG
- PHASE
-∞, +∞
- LOG MAG & PHASE
- LOG MAG & DELAY
- LIN MAG & PHASE
- More 2/2



- 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

CH1 MARKER LIST

| | | | | |
|-----|------------|----------|-----------|----------|
| 1: | 450.000MHz | 28.708 Ω | -14.237 Ω | 24.840pF |
| 2: | 470.000MHz | 48.512 Ω | 7.917 Ω | 2.681nH |
| 3: | 490.000MHz | 78.597 Ω | 27.130 Ω | 8.812nH |
| 4: | | | | |
| 5: | | | | |
| 6: | | | | |
| 7: | | | | |
| 8: | | | | |
| 9: | | | | |
| 10: | | | | |