

## Digital TV (DVB-T) Antenna



## SPECIFICATION

<b>1. Description</b>	<b>Digital TV (DVB-T)Antenna (UHF)</b>
<b>2. Part Number</b>	<b>DVB-T-001</b>
<b>3. Mechanical Characteristics</b>	<b>See attached drawing</b>
<b>Connector</b>	<b>F-PLUG</b>
<b>Cable</b>	<b>RG174x5M±100mm</b>
<b>Color</b>	<b>Black</b>
<b>Appearance</b>	<b>See attached drawing</b>
<b>4. Electrical Characteristics</b>	<b>See attached drawing</b>
<b>Operating Frequency</b>	<b>UHF: 470MHz~862MHz (Main Frequency:500~600MHz)</b>
<b>Peak Gain</b>	<b>(Main Frequency: 500~600MHz) : 2dBi</b>
<b>Impedance</b>	<b>75 ohm</b>
<b>V.S.W.R</b>	<b>(Main Frequency:500MHz~600MHz) : 2.0:1max</b>
<b>5.LNA Gain</b>	<b>+20dB</b>
<b>LNA Operation Frequency</b>	<b>150~860MHz</b>
<b>LNA Noise Figure</b>	<b>1.5dB max</b>
<b>LNA D.C Drive</b>	<b>5V</b>
<b>LNA Consumption Current</b>	<b>18~20mA</b>
<b>LNA Impedance</b>	<b>75 ohm</b>
<b>6.Operating Temperature</b>	<b>-20°C ~ +65°C</b>
<b>7. Storage Temperature</b>	<b>-30°C ~ +75°C</b>
<b>8.Helix Tensile Load</b>	<b>≤7 kgs</b>
<b>9.Dimensions</b>	<b>Hx241mm, Wx20mm, Dx13mm</b>

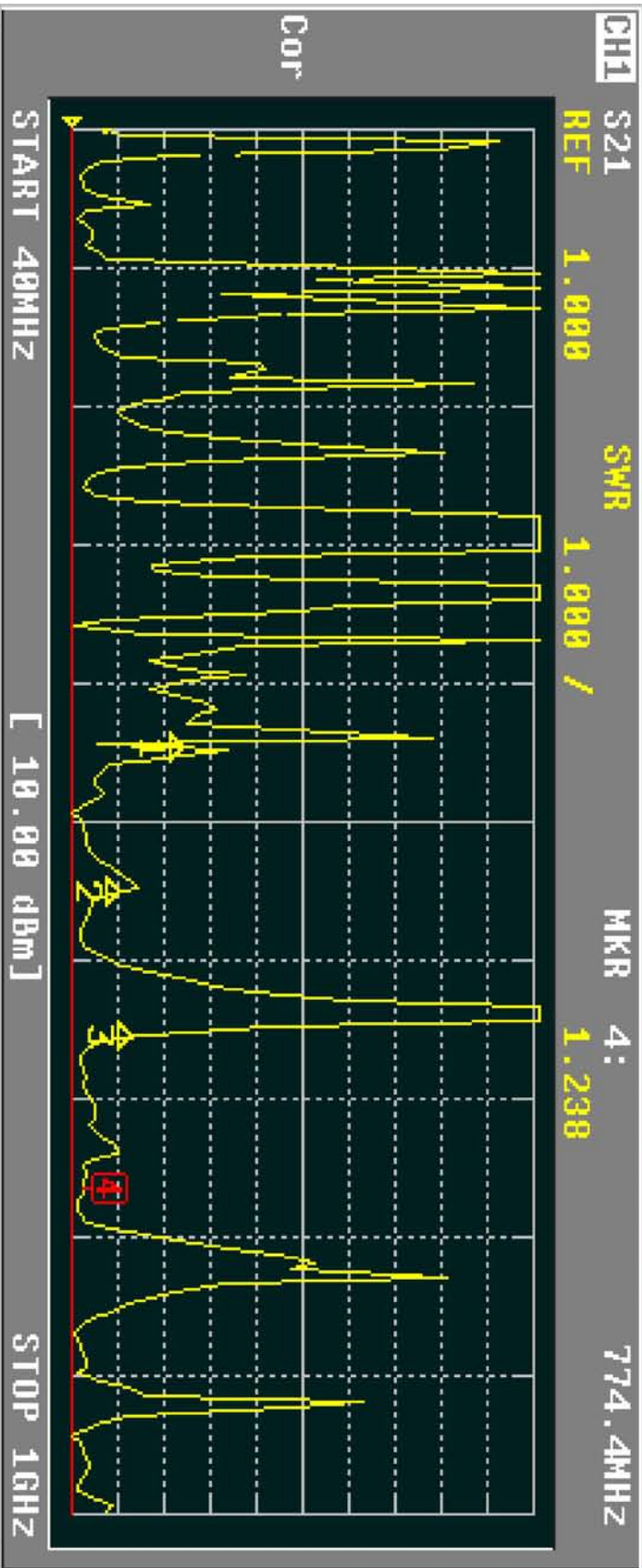


ELECTRONICAL CHARACTERISTICS. 電氣特性.

ITEM 項目		TEST CONDITION 測試環境	SPECIFICATION 規格
1	RETURN LOSS 反射損耗	Using Agilent Network Analyzer 8753ET to measure antenna S11 return loss Characteristics. 使用 Agilent 網路分析儀 8753ET 測量天線 S11 之返回損耗參數	如附圖 1
2	VSWR 電壓駐波比	Using Agilent Network Analyzer 8753ET to measure antenna S11 VSWR characteristics. 使用 Agilent 網路分析儀 8753ET 測量天線 S11 之電壓駐波比參數	如附圖 2
3	Smith Chart 史密斯圖	Using Agilent Network Analyzer 8753ET to measure antenna S11 Smith Chart characteristics. 使用 Agilent 網路分析儀 8753ET 測量天線 S11 之史密斯阻抗參數	如附圖 3
4	Gain Response 增益響應	Using Agilent Network Analyzer 8753ET to measure antenna S11 Smith Chart characteristics. 使用 Agilent 網路分析儀 8753ET 測量天線 S21 之史密斯阻抗參數	如附圖 4

MECHANICAL CHARACTERISTICS.機械性能

1	STRENGTH TEST 強度試驗	A static force of 15lbs being applied in one direction on the of the cable terminal for one minute 一個 15 磅之靜負荷施加於線端底部 持續一分鐘.	There shall be no visible marks of mechanical and electrical damage. 無任何現象顯示機械及電器性能之損壞.
2	VIBRATION TEST 振動測試	After being applied vibration of Amplitude of 1.5mm with 1000Hz band Of vibration frequency of perpendicular Directions for 5 minute. 以 1.5mm 的振幅和 1000MHz/sec 振動頻率以垂直方向振動 5 分鐘	There shall be no visible marks of mechanical and electrical damage. 無任何現象顯示機械及電器性能之損壞.



CH1 MARKER LIST

1:	470	000	000.0	HZ	2.951
2:	570	000	000.0	HZ	2.247
3:	670	000	000.0	HZ	2.207
4:	774	400	000.0	HZ	1.195
5:					
6:					
7:					
8:					
9:					
10:					

FORMAT

SWR

REAL

IMAG

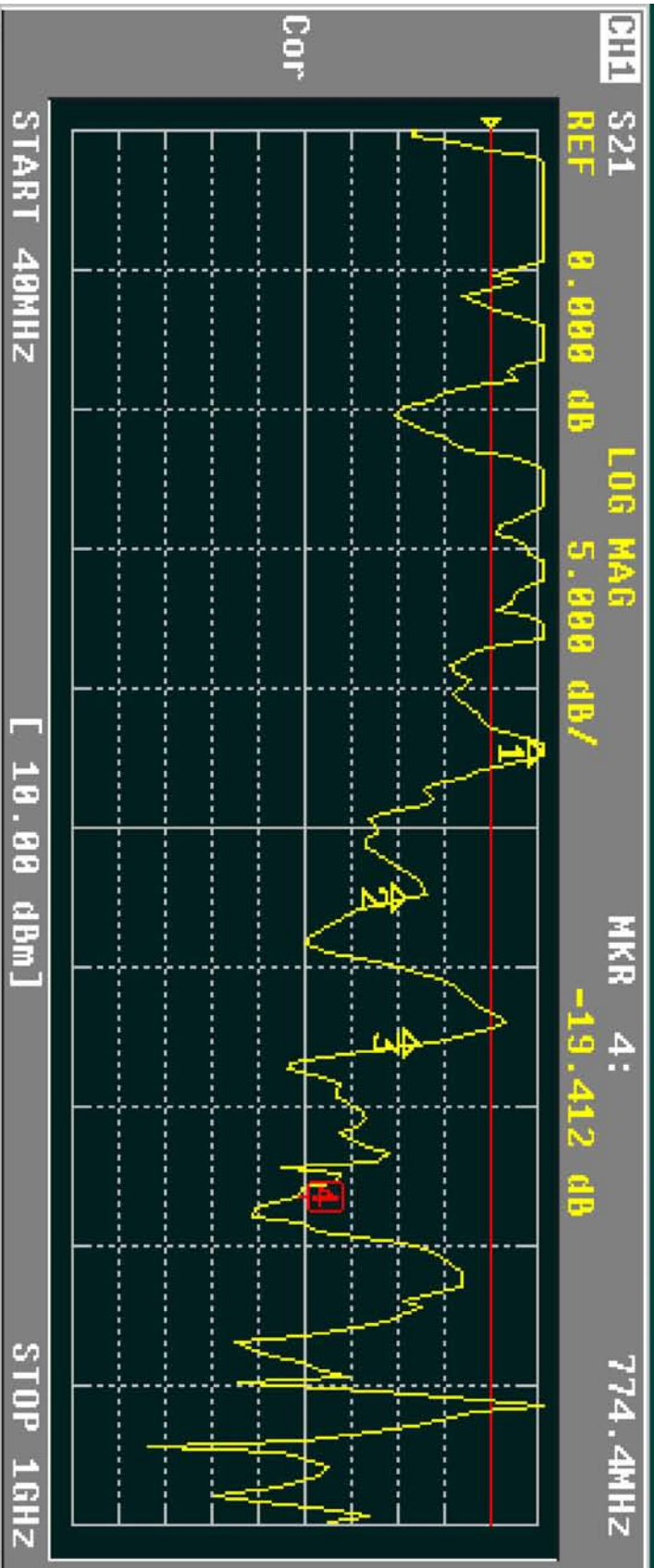
PHASE  
-∞, +∞

LOG MAG &  
PHASE

LOG MAG &  
DELAY

LIN MAG &  
PHASE

More 2/2



CH1 MARKER LIST

1:	470	000	000.0	HZ	13.973	dB
2:	570	000	000.0	HZ	-9.570	dB
3:	670	000	000.0	HZ	-7.407	dB
4:	774	400	000.0	HZ	-20.767	dB
5:						
6:						
7:						
8:						
9:						
10:						

RECALL

RECALL REG\_11

RECALL REG\_12

RECALL REG\_13

RECALL REG\_14

RECALL REG\_15

RECALL POWER OFF

LOAD FILE

More 3/4