



Professional and high quality

**Danyang Remote Control Antenna Factory**  
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CATV/DVB-T/MMDS/SMATV  
PRODUCTS AND SOLUTIONS'  
GOLD SUPPLIER FROM CHINA  
SINCE 1987



www.hwashen.com

## About us



HWASHEN Electronics was established in 1987. It locates in Danyang Economic Development Zone, Jiangsu province, China and occupies over 20,000 square meters.

Currently, HWASHEN has over 300 employees, of which over 30 technicians. They have in-depth knowledge of the antenna industry. All antenna products from HWASHEN are designed and developed by ourselves. We run the whole process from material production to assembly and bend ourselves to 6 major production lines, which are TV antennas, MMDS, C/Ku-band LNBF, cable, remote control and electronics connectors. Also, we cooperate and keep in touch with both customers and competitors.

HWASHEN is a technology-based and customer-oriented international company. It has excellent performance records in the indoor & outdoor TV antenna, CATV and Microwave Communication Products. HWASHEN sets its goal on the global markets. The TV antenna and MMDS product line has a long-time reputation in the antenna industry. HWASHEN is ISO 9001:2000 certified. To meet worldwide trends on trade right protection, several hundred of its products have met the requirements of 1997 CE regulation, (EMC & LVD). Most of products are in compliance with RoHS and WEEE directives. HWASHEN will continue to provide high-quality products to its customers and keep on serving every customer.

Welcome global customers to come here and do business with us.



## CONTENTS

INDOOR TV ANTENNA	01
OUTDOOR TV ANTENNA	09
DVB-T ANTENNA	25
MMDS ANTENNA	27
CONNECTORS/CABLES	29
CATV /SMATV ACCESSORIES	33

# INDOOR TV ANTENNA



MODEL: TX-HD02



MODEL: TX-HD04



MODEL: TX-HD03

## INDOOR TV ANTENNA

INDOOR TV ANTENNA

color

MODEL: TX-90-7

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
5-7dBi	45-862MHz	75Ω	≤1.5

color(shining)

MODEL: TX-90-8

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
5-7dBi	45-862MHz	75Ω	≤1.5

MODEL: TX-90-9

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
5-7dBi	45-862MHz	75Ω	≤1.5

MODEL: TX-90-10

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
5-7dBi	45-862MHz	75Ω	≤1.5

color

MODEL: TX-01

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
8-12dBi	45-862MHz	75Ω	≤1.5

MODEL: TX-HD01

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
30dBi	VHF 47-230MHz UHF 470-870MHz	75Ω	≤1.5

# INDOOR TV ANTENNA



MODEL: TX-HD02

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
10-20dBi	45-862MHz	75Ω	≤1.5



MODEL: TX-HD03

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
10-20dBi	45-862MHz	75Ω	≤1.5



MODEL: TX-HD04

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
30dBi	VHF 47-230MHz UHF 470-870MHz	75Ω	≤1.5



MODEL: TX-HD05

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
30dBi	VHF 47-230MHz UHF 470-862MHz	75Ω	≤1.5



MODEL: TX-93-9

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
26-28dBi	40-862MHz	75Ω	≤1.5



MODEL: TX-93-9-F

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
26-28dBi	40-862MHz	75Ω	≤1.5



MODEL: TX-88

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
10-12dBi	40-862MHz	75Ω	≤1.5



MODEL: TX-98

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
10-12dBi	40-862MHz	75Ω	≤1.5



MODEL: TX-88-2

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
10-12dBi	40-862MHz	75Ω	≤1.5



MODEL: TX-98-2

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
10-12dBi	40-862MHz	75Ω	≤1.5



MODEL: TX-93-12

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
26-28dBi	40-862MHz	75Ω	≤1.5



MODEL: TX-93-12-F

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
26-28dBi	40-862MHz	75Ω	≤1.5

INDOOR TV ANTENNA

# INDOOR TV ANTENNA



**MODEL: TX-93-A**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
26-28dBi	40-862MHz	75Ω	≤ 1.5



**MODEL: TX-93-A-1**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
26-28dBi	40-862MHz	75Ω	≤ 1.5



**MODEL: TX-93-Z**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
26-28dBi	40-862MHz	75Ω	≤ 1.5



**MODEL: TX-93-SXZ**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
26-28dBi	40-862MHz	75Ω	≤ 1.5



**MODEL: TX-93-H**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
26-28dBi	40-862MHz	75Ω	≤ 1.5



**MODEL: TX-93-12-N**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
26-28dBi	40-862MHz	75Ω	≤ 1.5

# INDOOR TV ANTENNA



**MODEL: TX-04**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
10dBi	40-862MHz	75Ω	≤ 1.5



**MODEL: TX-07**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
26-28dBi	40-862MHz	75Ω	≤ 1.5



**MODEL: TX-50**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
10-12dBi	40-862MHz	75Ω	≤ 1.5



**MODEL: TX-87**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
10-12dBi	40-862MHz	75Ω	≤ 1.5



**MODEL: TX-96-3B**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
6dBi	40-450MHz	75Ω	≤ 1.5



**MODEL: TX-96-3Z**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
6dBi	40-450MHz	75Ω	≤ 1.5

color

INDOOR TV ANTENNA

# INDOOR TV ANTENNA



**MODEL: TX-90**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
5-7dBi	40-862MHz	75Ω	≤1.5



**MODEL: TX-90-1**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
5-7dBi	40-862MHz	75Ω	≤1.5



**MODEL: TX-90-2**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
5-7dBi	40-862MHz	75Ω	≤1.5



**MODEL: TX-90-3**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
5-7dBi	40-862MHz	75Ω	≤1.5



**MODEL: TX-90-4**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
5-7dBi	40-862MHz	75Ω	≤1.5



**MODEL: TX-90-5**

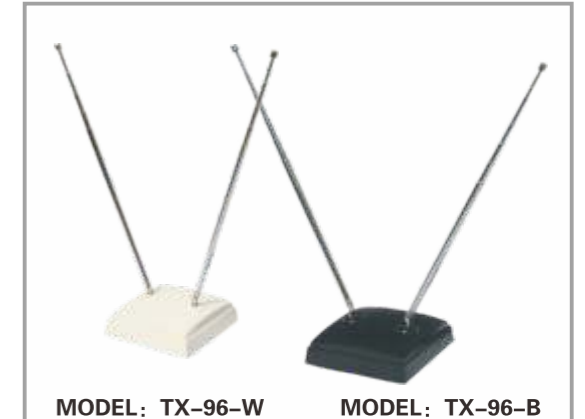
Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
5-7dBi	40-862MHz	75Ω	≤1.5

# INDOOR TV ANTENNA



**MODEL: TX-90-6**

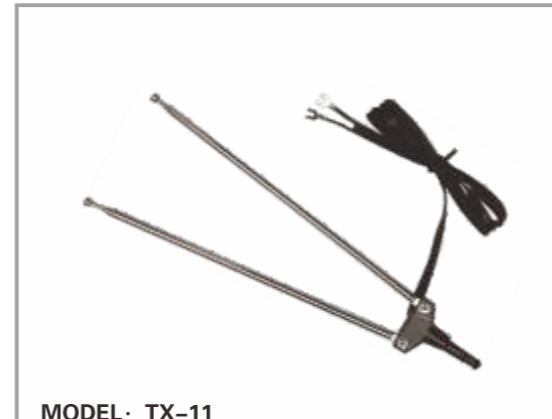
Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
5-7dBi	40-862MHz	75Ω	≤1.5



**MODEL: TX-96-W**

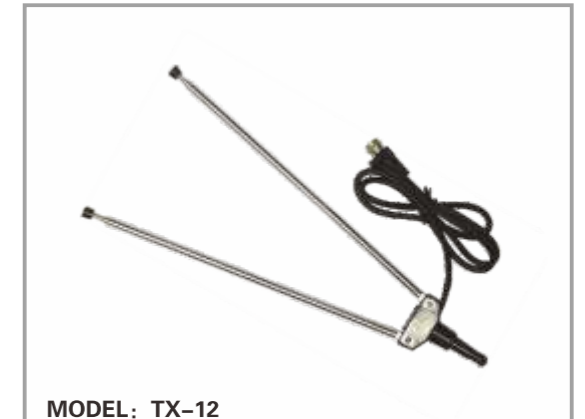
**MODEL: TX-96-B**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
6dBi	40-450MHz	75Ω	≤1.5



**MODEL: TX-11**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
6dBi	40-450MHz	75Ω	≤1.5



**MODEL: TX-12**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
6dBi	40-450MHz	75Ω	≤1.5



ROD ANTENNA



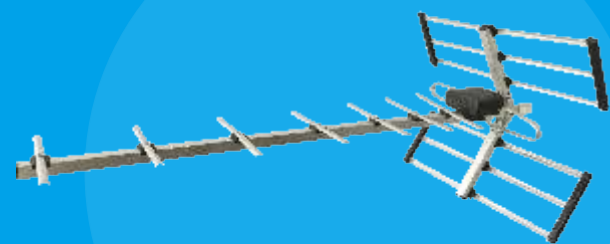
ROD ANTENNA

INDOOR TV ANTENNA

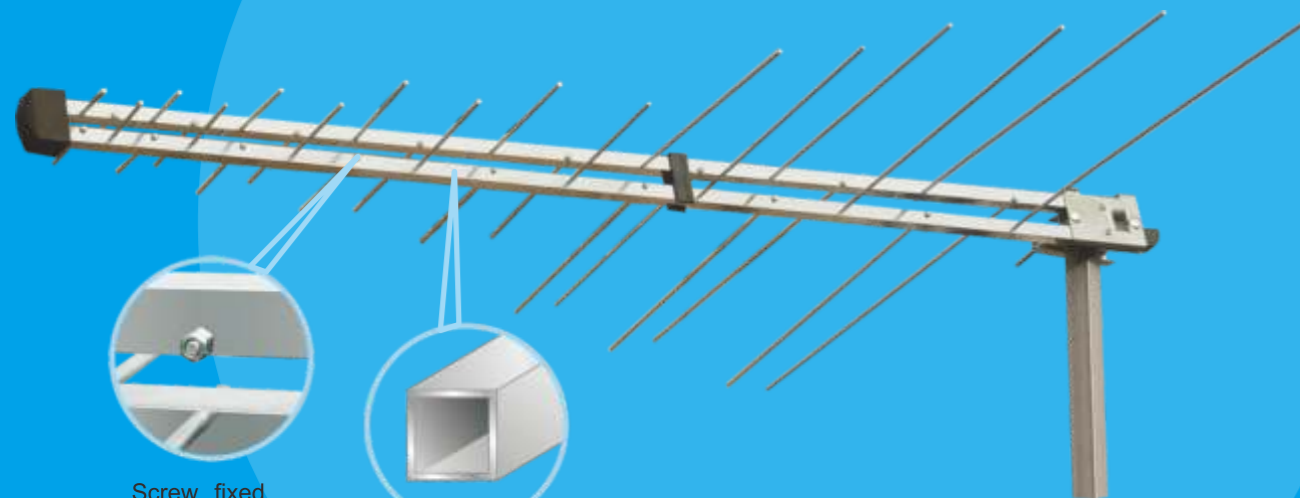
# OUTDOOR TV ANTENNA



MODEL: HS-R6



MODEL: HS-16R14A



Screw fixed

14cmX14cm

MODEL: UV-A02

## OUTDOOR TV ANTENNA

OUTDOOR TV ANTENNA



MODEL: HS-14R8A

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11-18dBi	40-862MHz	75Ω	≤2



MODEL: HS-14R8B

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
10-18dBi	460-800MHz	75Ω	≤2



MODEL: HS-14R10A

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
13dBi	460-800MHz	75Ω	≤2



MODEL: HS-16S3A

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
6dBi	470-862MHz	75Ω	≤1.5



MODEL: HS-16S5A

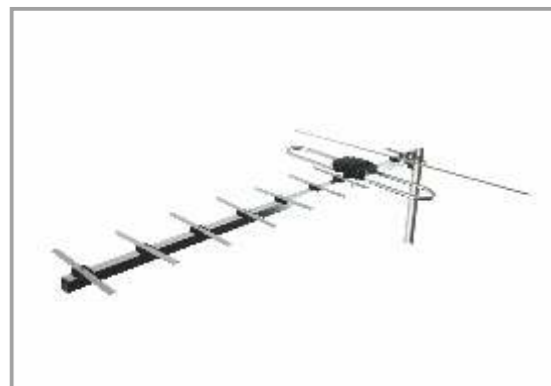
Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
7dBi	470-862MHz	75Ω	≤1.5



MODEL: HS-16S5B

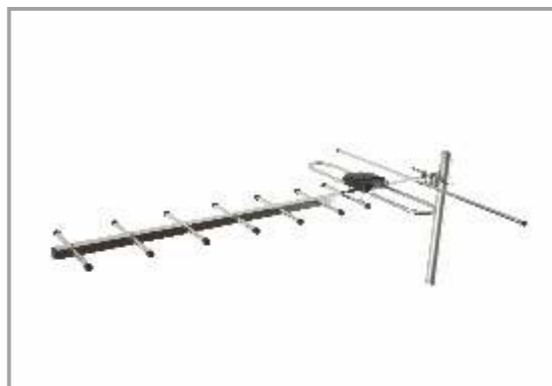
Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
7dBi	470-862MHz	75Ω	≤1.5

# OUTDOOR TV ANTENNA



**MODEL: HS-16S9A**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
8dBi	470-862MHz	75Ω	≤1.5



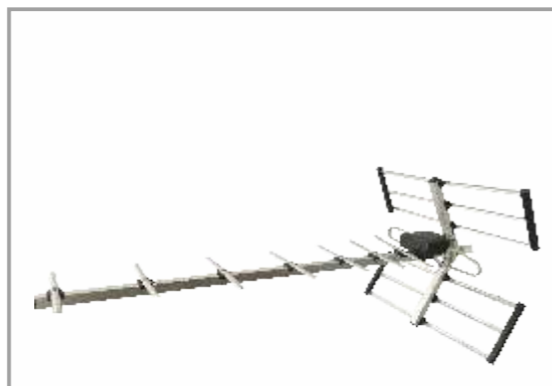
**MODEL: HS-16S9B**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
12dBi	470-862MHz	75Ω	≤1.5



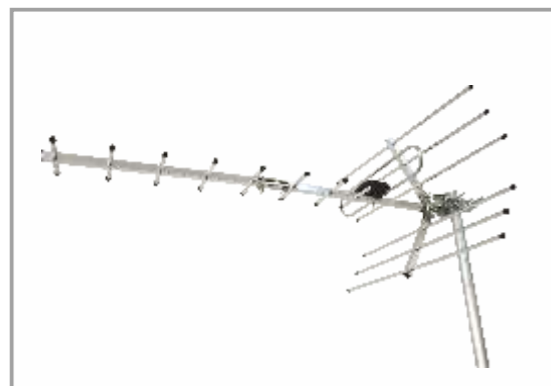
**MODEL: HS-16R10A**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
13dBi	460-800MHz	75Ω	≤2



**MODEL: HS-16R14A**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
15dBi	470-862MHz	75Ω	≤1.5



**MODEL: HS-16R15A**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
13dBi	460-800MHz	75Ω	≤1.5



**MODEL: HS-16R18A**

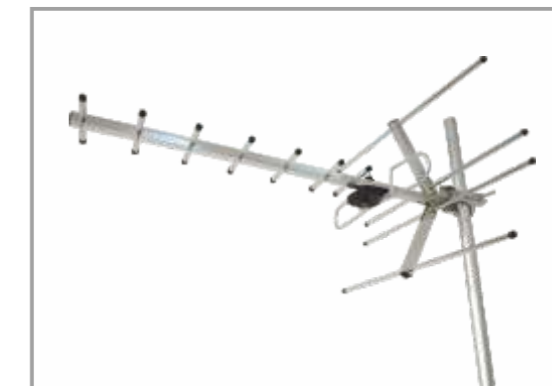
Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
16dBi	470-800MHz	75Ω	≤1.5

# OUTDOOR TV ANTENNA



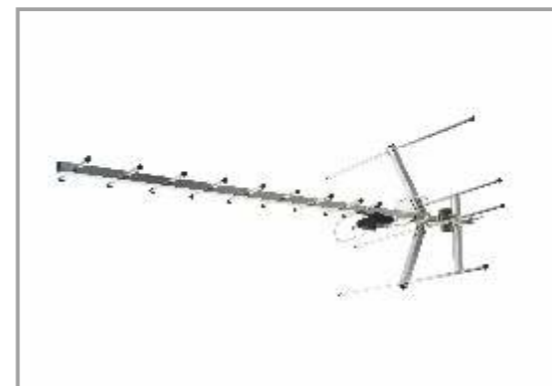
**MODEL: HS-18R10A**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
8dBi	470-862MHz	75Ω	≤1.5



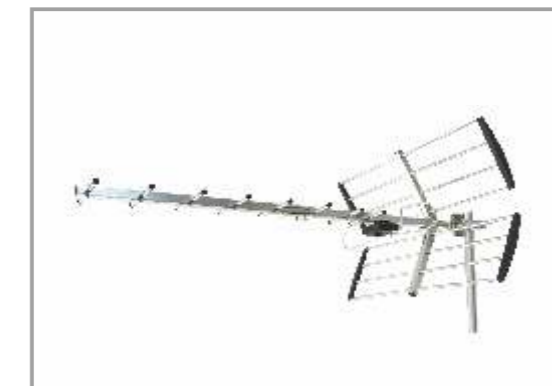
**MODEL: HS-18R12A**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
12dBi	470-862MHz	75Ω	≤1.5



**MODEL: HS-18R14A**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
14dBi	470-862MHz	75Ω	≤1.5



**MODEL: HS-18R17A**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
14dBi	470-790MHz	75Ω	≤1.5



**MODEL: HS-18R17B**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
14dBi	470-790MHz	75Ω	≤1.5



**MODEL: HS-18R18A**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
14dBi	470-800MHz	75Ω	≤1.5

OUTDOOR TV ANTENNA



# OUTDOOR TV ANTENNA



**MODEL: HS-18R19A**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
17dBi	470-860MHz	75Ω	≤1.5



**MODEL: HS-18R25A**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
12dBi	470-862MHz	75Ω	≤1.5



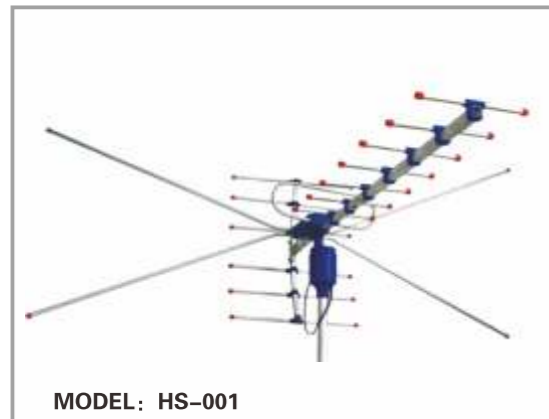
**MODEL: HS-18R25B**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
12dBi	470-862MHz	75Ω	≤1.5



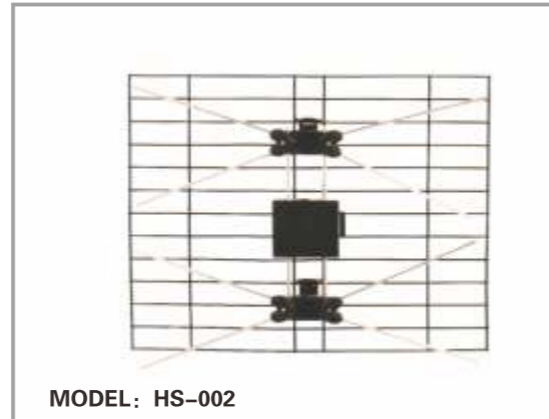
**MODEL: HS-R6**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
20dBi	470-862MHz	75Ω	≤1.5



**MODEL: HS-001**

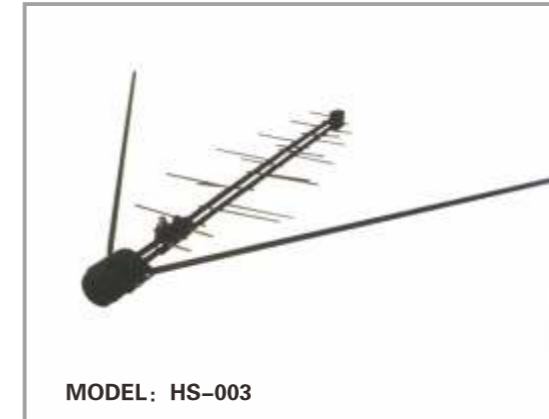
Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
20-25dBi	40-862MHz	75Ω	≤1.5



**MODEL: HS-002**

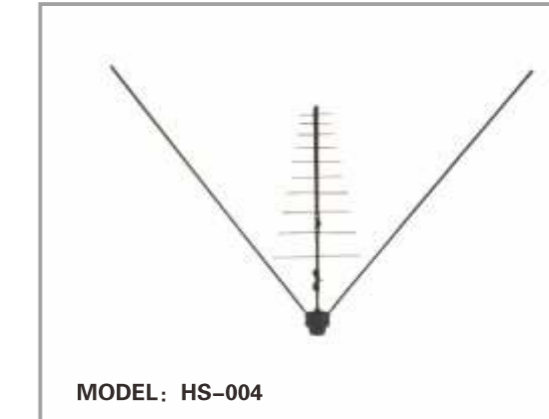
Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
7dBi	474-860MHz	75Ω	≤1.5

# OUTDOOR TV ANTENNA



**MODEL: HS-003**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
6dBi	47-862MHz	75Ω	≤1.5



**MODEL: HS-004**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
26dBi	47-862MHz	75Ω	≤1.5



**MODEL: HS-005**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
7dBi	40-862MHz	75Ω	≤1.5



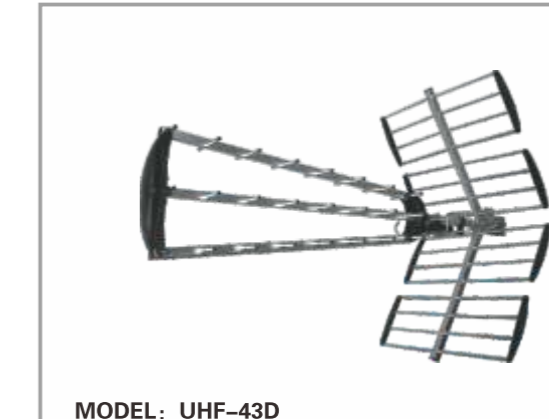
**MODEL: HS-006**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
7dBi	40-862MHz	75Ω	≤1.5



**MODEL: HS-007**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
9dBi	40-862MHz	75Ω	≤1.5

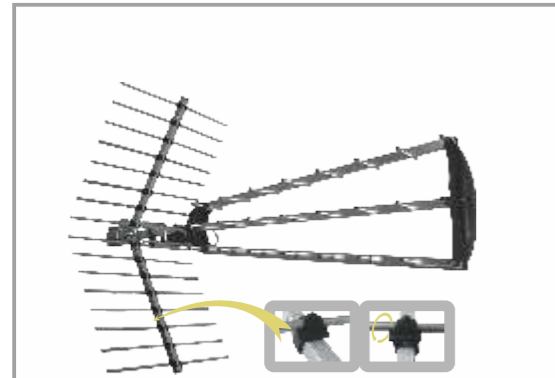


**MODEL: UHF-43D**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
18dBi	470-862MHz	75Ω	≤1.5

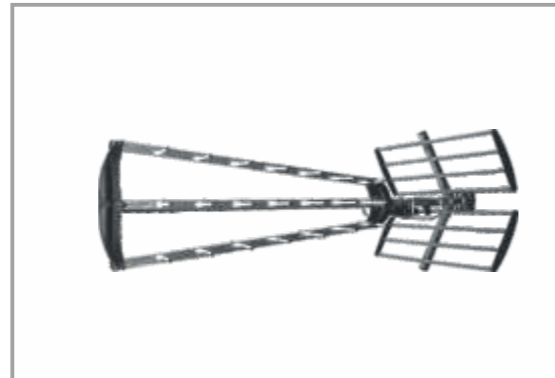
OUTDOOR TV ANTENNA

# OUTDOOR TV ANTENNA



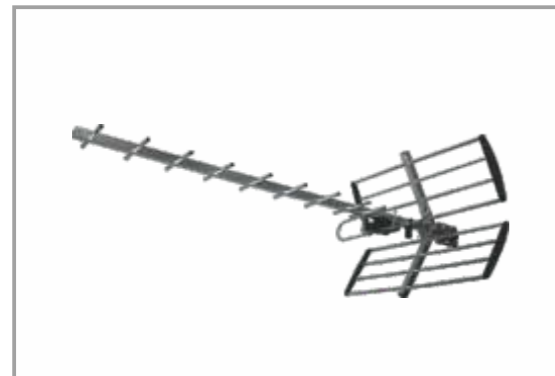
**MODEL: UHF-431**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
9-18dBi	470-862MHz	75Ω	≤1.5



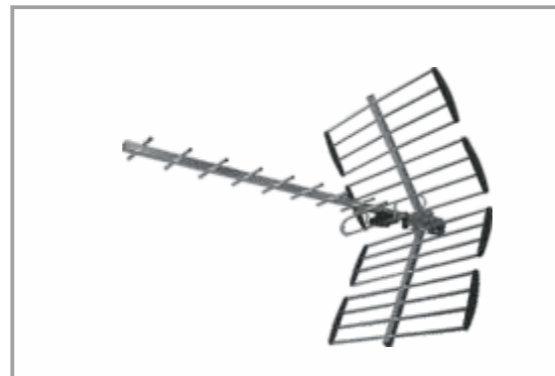
**MODEL: UHF-432**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
18dBi	470-862MHz	75Ω	≤1.5



**MODEL: UHF-433**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
18dBi	470-862MHz	75Ω	≤1.5



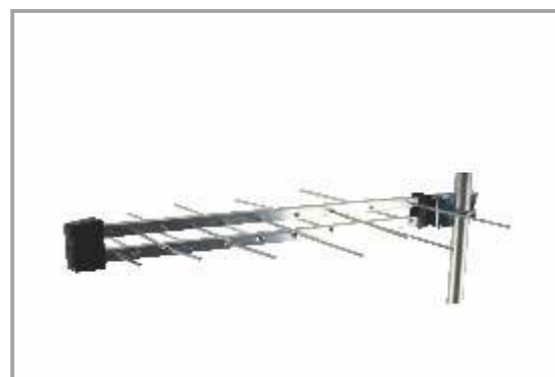
**MODEL: UHF-434**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
18dBi	470-862MHz	75Ω	≤1.5



**MODEL: HS-12E**

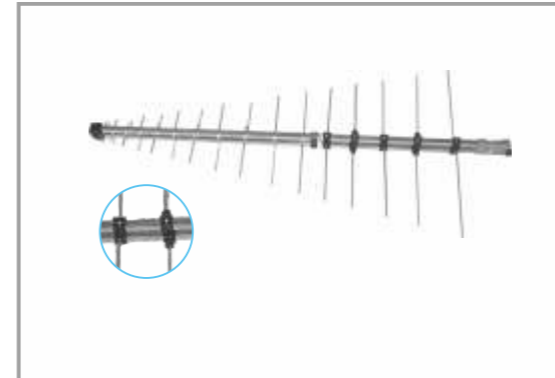
Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
8dBi	174-230MHz	75Ω	≤1.2



**MODEL: HS-20E**

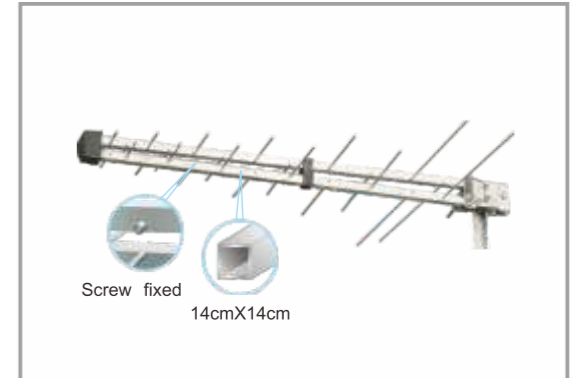
Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
10dBi	40-862MHz	75Ω	≤1.5

# OUTDOOR TV ANTENNA



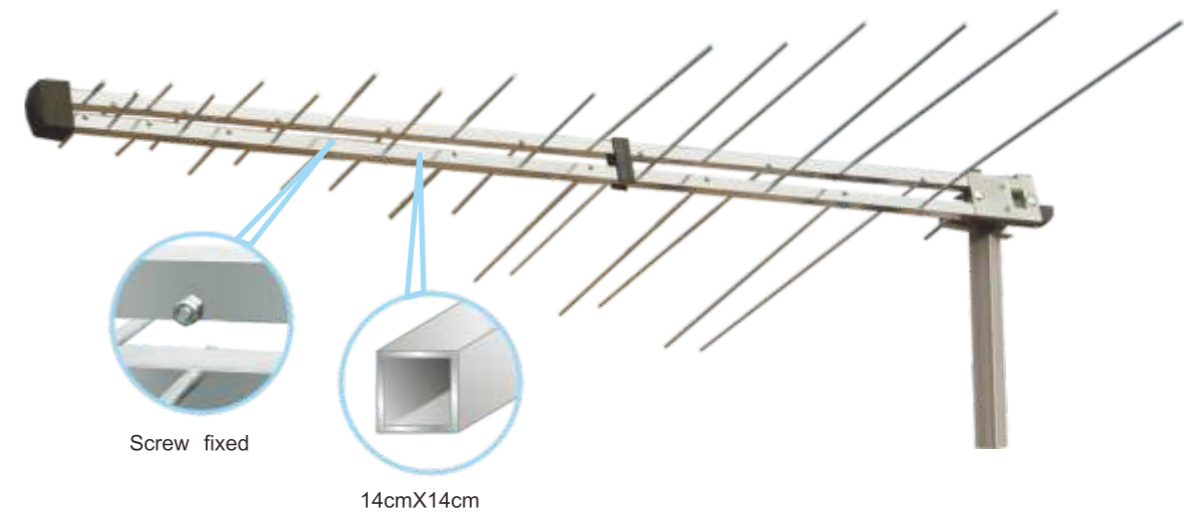
**MODEL: UV-A02N**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11-18dBi	40-862MHz	75Ω	≤1.5



**MODEL: UV-A03**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
8.5-9.5dBi	40-862MHz	75Ω	≤1.5



**MODEL: UV-A02**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11-18dBi	40-862MHz	75Ω	≤1.5

OUTDOOR TV ANTENNA

# OUTDOOR TV ANTENNA



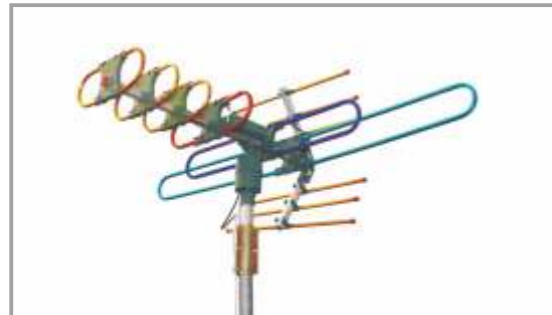
MODEL: HS-2814

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
18-25dBi	40-862MHz	75Ω	≤1.5



MODEL: HS-2815R

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
18-25dBi	40-862MHz	75Ω	≤1.5



MODEL: HS-212

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
18-25dBi	40-862MHz	75Ω	≤1.5



MODEL: HS-818

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
18-25dBi	40-862MHz	75Ω	≤1.5



MODEL: HS-808TG

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
20-28dBi	40-862MHz	75Ω	≤1.5



MODEL: HS-850TG

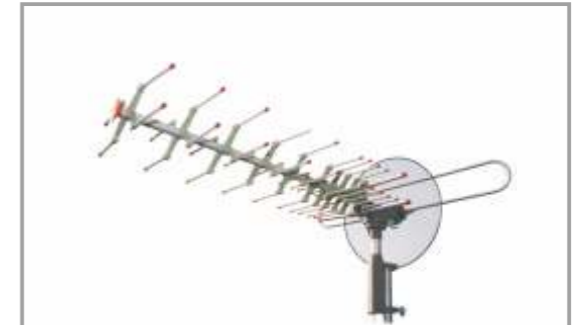
Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
20-28dBi	40-862MHz	75Ω	≤1.5

# OUTDOOR TV ANTENNA



MODEL: HS-883TG

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
20-28dBi	40-862MHz	75Ω	≤1.5



MODEL: HS-893TG

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
20-28dBi	40-862MHz	75Ω	≤1.5



MODEL: HS-950TG

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
20-28dBi	40-862MHz	75Ω	≤1.5



MODEL: HS-990TG

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
20-28dBi	40-862MHz	75Ω	≤1.5



MODEL: HS-100C

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
20-28dBi	40-862MHz	75Ω	≤1.5

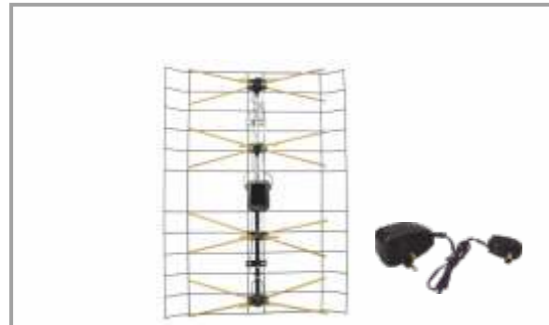


MODEL: HS-100D

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
20-28dBi	40-862MHz	75Ω	≤1.5

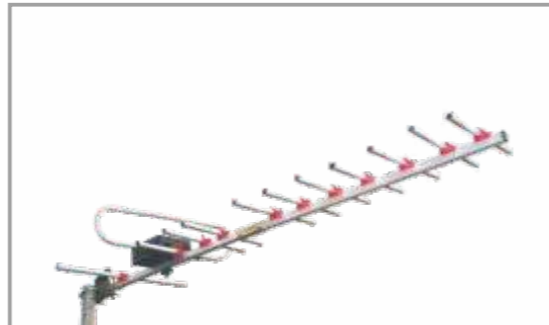
OUTDOOR TV ANTENNA

# OUTDOOR TV ANTENNA



**MODEL: UVF-SY003**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
30dBi	470-862MHz	75Ω	≤1.5

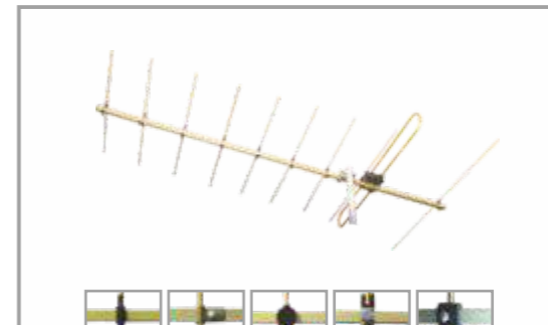


**MODEL: UHF-12E**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
9dBi	470-862MHz	75Ω	≤1.5

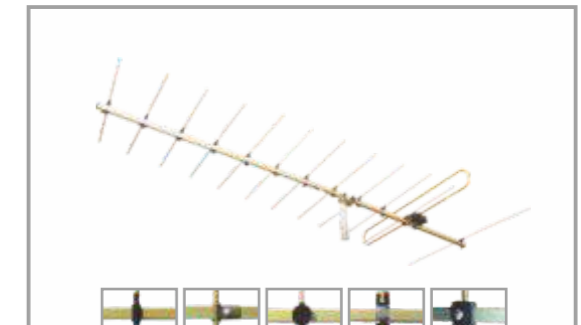
# OUTDOOR TV ANTENNA

OUTDOOR TV ANTENNA



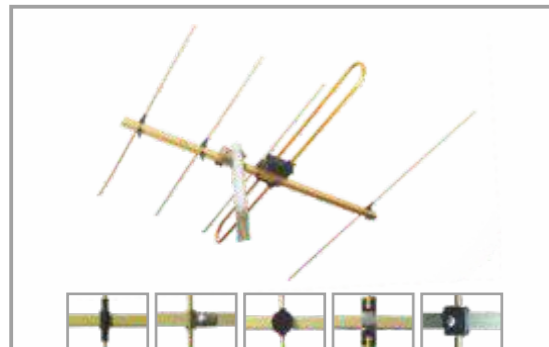
**MODEL: VHF-10E**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11-18dBi	40-230MHz	75Ω	≤1.5



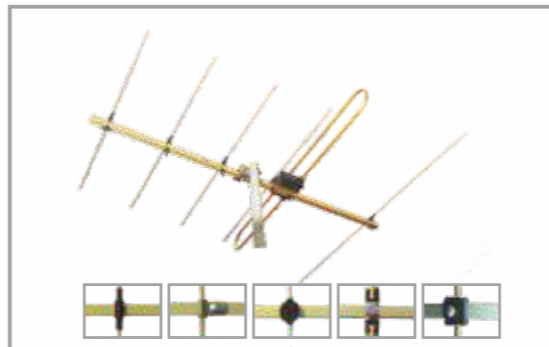
**MODEL: VHF-13E**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11-18dBi	40-230MHz	75Ω	≤1.5



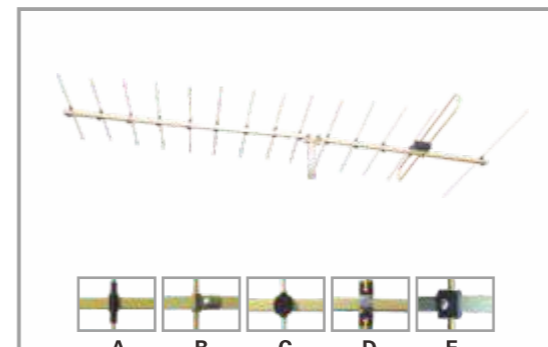
**MODEL: VHF-5E**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
10-18dBi	40-230MHz	75Ω	≤1.5



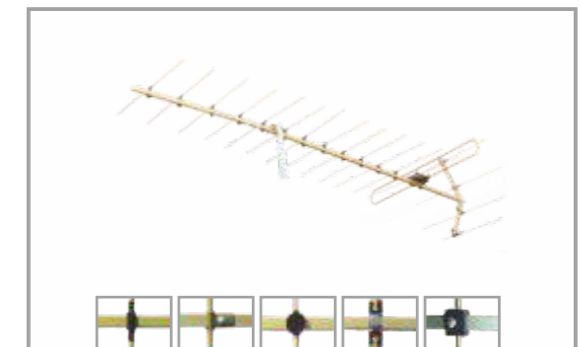
**MODEL: VHF-6E**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
10-18dBi	40-230MHz	75Ω	≤1.5



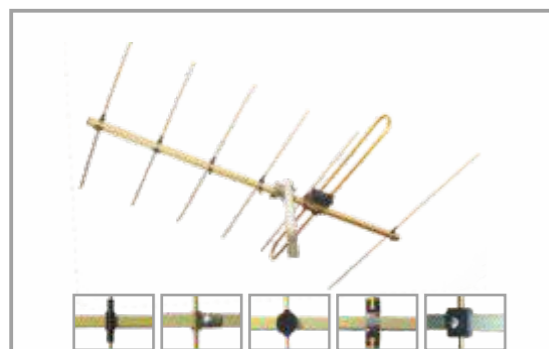
**MODEL: VHF-15E**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11-18dBi	40-230MHz	75Ω	≤1.5



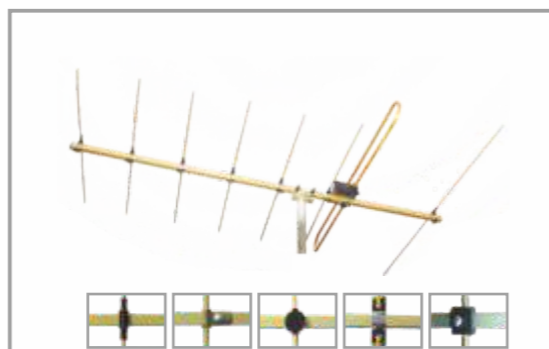
**MODEL: VHF-18E**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11-18dBi	40-230MHz	75Ω	≤1.5



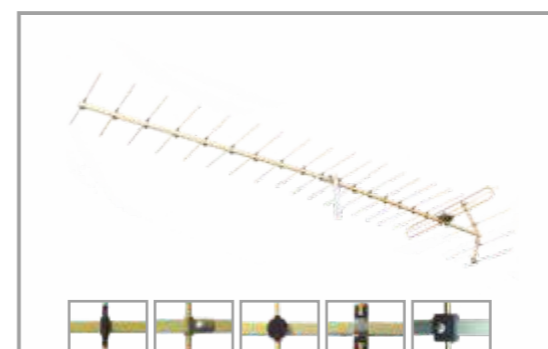
**MODEL: VHF-7E**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
10-18dBi	40-230MHz	75Ω	≤1.5



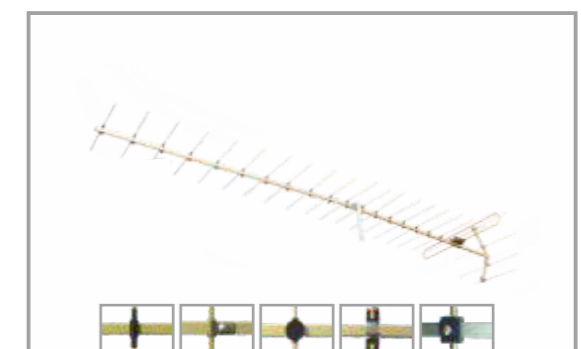
**MODEL: VHF-8E**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
10-18dBi	40-230MHz	75Ω	≤1.5



**MODEL: VHF-23E**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11-18dBi	40-230MHz	75Ω	≤1.5



**MODEL: VHF-24E**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11-18dBi	40-230MHz	75Ω	≤1.5

# OUTDOOR TV ANTENNA



**MODEL: 303S-512E**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
7dBi	88-230MHz	75Ω	≤1.5



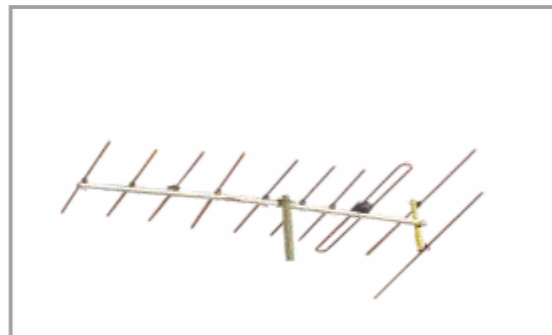
**MODEL: 503S-512E**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
8dBi	88-230MHz	75Ω	≤1.5



**MODEL: 5C-512Z**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
5dBi	88-230MHz	75Ω	≤1.5



**MODEL: 9C-512Z**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
9dBi	88-230MHz	75Ω	≤1.5



**MODEL: 13C-512Z**

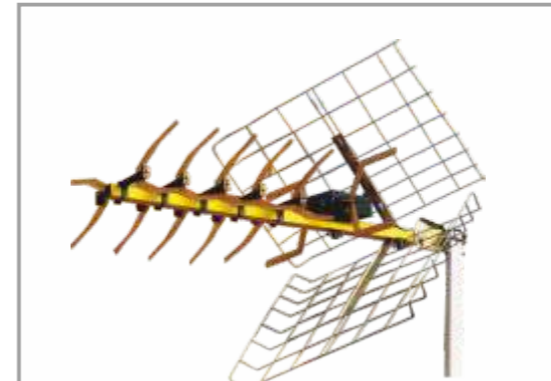
Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
10dBi	88-230MHz	75Ω	≤1.5



**MODEL: 23C-512Z**

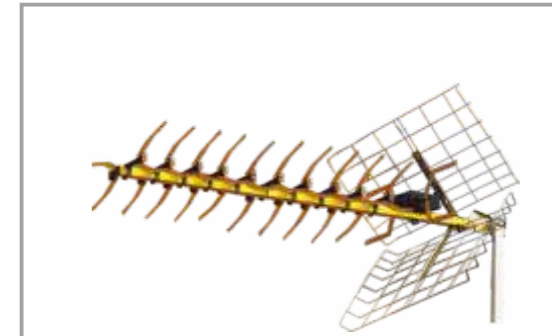
Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
18dBi	88-230MHz	75Ω	≤1.5

# OUTDOOR TV ANTENNA



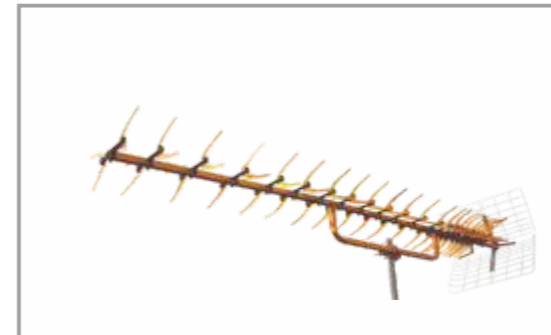
**MODEL: UHF-23E**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11dBi	470-862MHz	75Ω	≤1.5



**MODEL: UHF-43E(Gold)  
UHF-20E(Silver)**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
12dBi	470-862MHz	75Ω	≤1.5



**MODEL: UHF-91E**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
16dBi	470-862MHz	75Ω	≤1.5



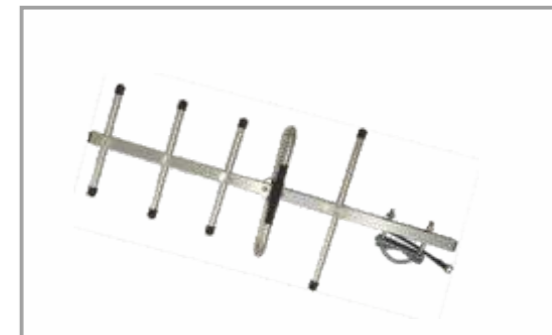
**MODEL: VHF-A01**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
7.5-8.5dBi	174-230MHz	75Ω	≤1.5



**MODEL: UHF-YG-3E**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
13dBi	650-798MHz	75Ω	≤1.5



**MODEL: UHF-YG-5E**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
13dBi	650-798MHz	75Ω	≤1.5

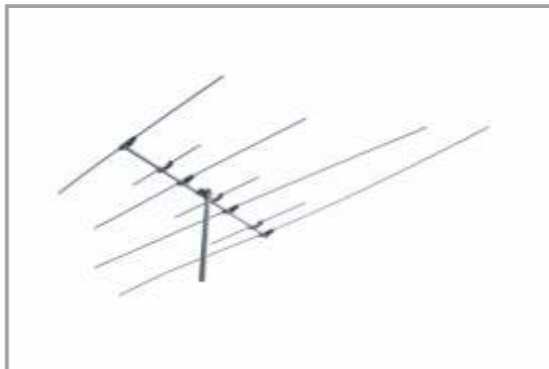
OUTDOOR TV ANTENNA

# OUTDOOR TV ANTENNA



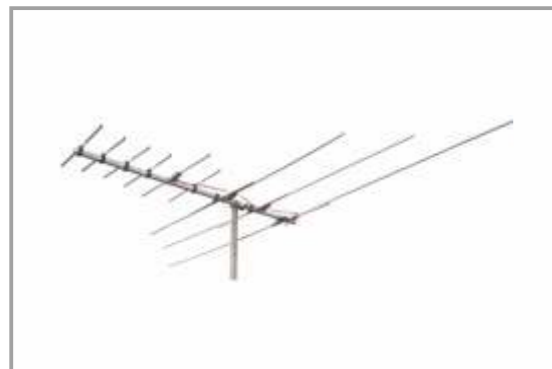
**MODEL: UV-922**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11-18dBi	40-862MHz	75Ω	≤1.5



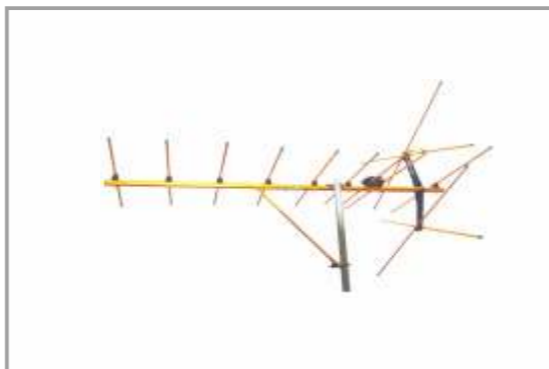
**MODEL: 7E-512**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11-18dBi	40-862MHz	75Ω	≤1.5



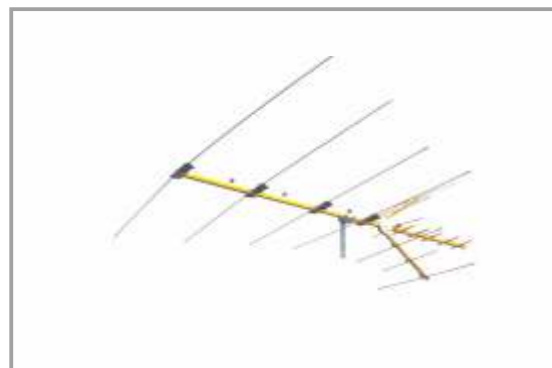
**MODEL: UV-633**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11-18dBi	40-862MHz	75Ω	≤1.5



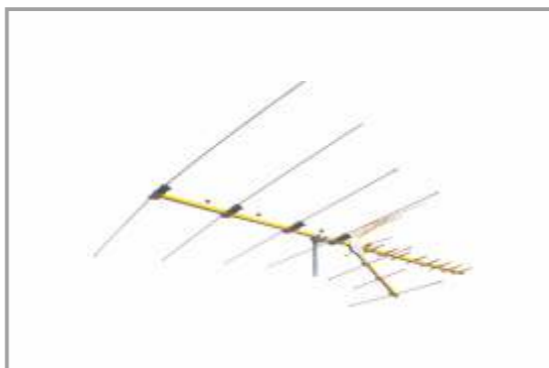
**MODEL: 122S-512E**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11-18dBi	40-862MHz	75Ω	≤1.5



**MODEL: UVF-15E**

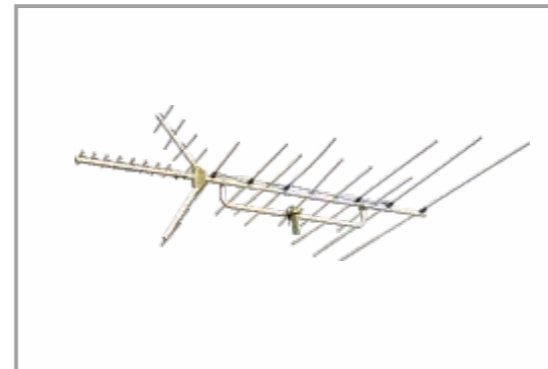
Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11-18dBi	40-862MHz	75Ω	≤1.5



**MODEL: UVF-25E**

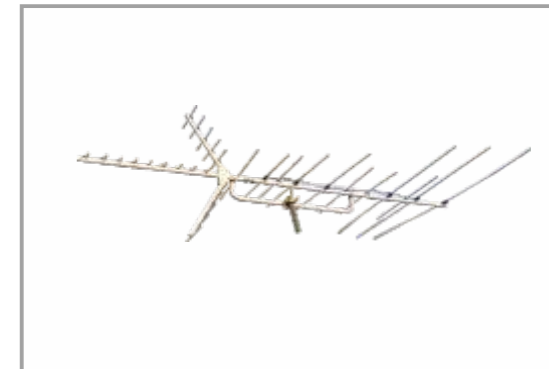
Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11-18dBi	40-862MHz	75Ω	≤1.5

# OUTDOOR TV ANTENNA



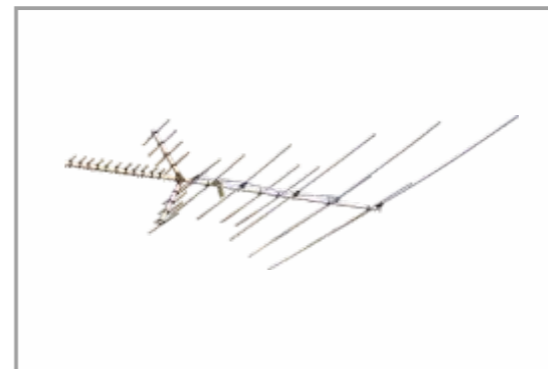
**MODEL: ANT-045**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11-18dBi	40-862MHz	75Ω	≤1.5



**MODEL: ANT-046**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11-18dBi	40-862MHz	75Ω	≤1.5



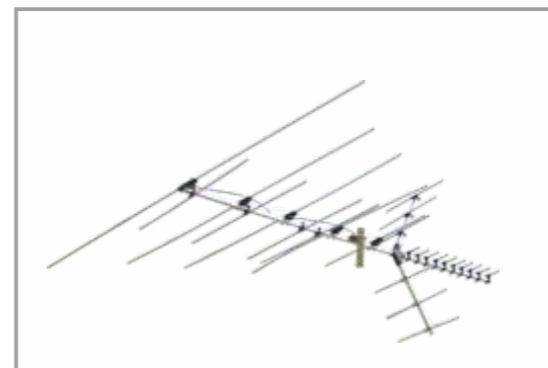
**MODEL: ANT-047**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11-18dBi	40-862MHz	75Ω	≤1.5



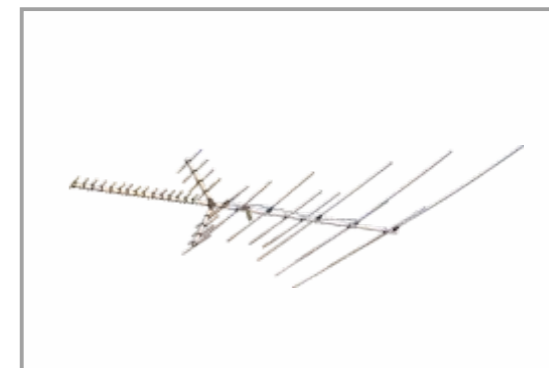
**MODEL: ANT-048**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11-18dBi	40-862MHz	75Ω	≤1.5



**MODEL: ANT-049**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11-18dBi	40-862MHz	75Ω	≤1.5



**MODEL: ANT-050**

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
11-18dBi	40-862MHz	75Ω	≤1.5

OUTDOOR TV ANTENNA

# DVB-T ANTENNA



MODEL: DVB-TX-10

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
5dBi	VHF 174-230 UHF 470-862MHz	75Ω	≤1.6 / ≤2.5



MODEL: DVB-TX-11

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
3-5dBi	VHF 174-230 UHF 470-862MHz	50Ω	≤1.6 / ≤2.5



MODEL: DVB-TX-12

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
5dBi	VHF 174-230 UHF 470-862MHz	50Ω	≤1.6 / ≤2.5



Gsm/2.4g Antenna

## DVB-T ANTENNA

DVB-T ANTENNA



MODEL: DVB-TX-01



MODEL: DVB-TX-02



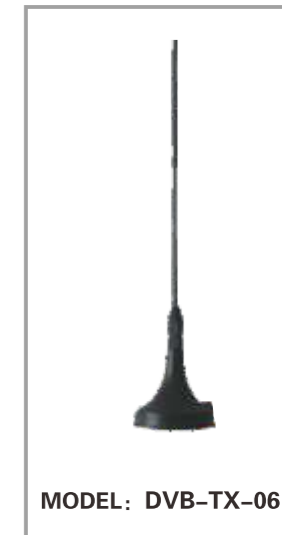
MODEL: DVB-TX-03



MODEL: DVB-TX-04



MODEL: DVB-TX-05



MODEL: DVB-TX-06



MODEL: DVB-TX-07 DVB-TX-08



MODEL: DVB-TX-09

Gain	Operation Frequency	Output Impedance	Standing Wave Ratio
3-5dBi	VHF 174-230 UHF 470-862MHz	75Ω	≤1.6 / ≤2.5

# MMDS ANTENNA



**MODEL: WB-1**

A: 2278MHz  
B: 1838MHz  
C: 2278MHz with filter

Gain	Frequency	Output Impedance	Front-to-Back Ratio
50dBi	2300-2700MHz	75Ω	25dBi



**MODEL: A/D-2**

INPUT: AC 110V 60HZ/230V 50HZ  
OUTPUT: DC 24V 350mA



A: 2278MHz  
B: 1838MHz  
C: 2278MHz with filter

**MODEL: WB-2**

Gain	Frequency	Output Impedance	Front-to-Back Ratio
50dBi	2300-2700MHz	75Ω	25dBi



A: 2278MHz  
B: 1838MHz  
C: 2278MHz with filter

**MODEL: WB-3**

Gain	Frequency	Output Impedance	Front-to-Back Ratio
50dBi	2300-2700MHz	75Ω	25dBi

## MMDS ANTENNA

MMDS ANTENNA



A: 2278MHz  
B: 1838MHz

**MODEL: WB-4**

Gain	Frequency	Output Impedance	Noise Figure
30-35dBi	2300-2700MHz	75Ω	1.5dBi



A: 2278MHz  
B: 1838MHz

**MODEL: WB-5**

Gain	Frequency	Output Impedance	Noise Figure
30-35dBi	2300-2700MHz	75Ω	1.5dBi



A: 2278MHz  
B: 1838MHz

**MODEL: WB-6**

Gain	Frequency	Output Impedance	Noise Figure
30-35dBi	2300-2700MHz	75Ω	1.5dBi



**MODEL: WB-P18**

Gain	Frequency	Output Impedance	VSWR
18dBi	2150-2686MHz	75Ω	≤1.5



**MODEL: WB-P21**

Gain	Frequency	Output Impedance	VSWR
21dBi	2150-2686MHz	75Ω	≤1.5



**MODEL: WB-P24**

Gain	Frequency	Output Impedance	VSWR
24dBi	2150-2686MHz	75Ω	≤1.5



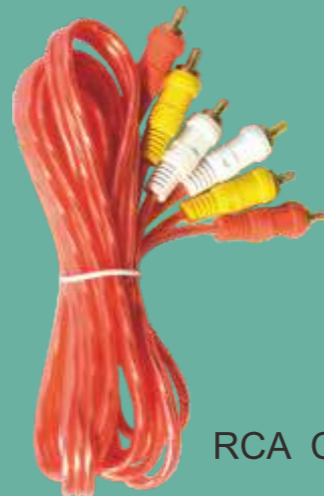
# CONNECTORS CABLES



Window Cable



Connector



RCA Cable

## CONNECTORS/CABLES

CONNECTORS/CABLES



**MODEL: HS-F01**  
F connector  
A) RG59/U  
B) RG6/U



**MODEL: HS-F10**  
F double female  
A) with washer & nuts  
B) w/o washer & nuts



**MODEL: HS-F02**  
F connector



**MODEL: HS-F11**  
F three female



**MODEL: HS-F03**  
F connector  
A) RG59/U  
B) RG6/U



**MODEL: HS-F13**  
F male to BNC female



**MODEL: HS-F04**  
F connector



**MODEL: HS-F14**  
F male to F quick male



**MODEL: HS-F05**  
F male twist on  
A) RG 58/U B) RG59/U  
C) RG6/U D) 3C 2V



**MODEL: HS-F15**  
F quick male to BNC female



**MODEL: HS-F06**  
F male twist on  
A) RG 58/U B) RG59/U  
C) RG6/U D) 3C 2V



**MODEL: HS-F16**  
F quick female to BNC female

# CONNECTORS/CABLES



MODEL: HS-AVC01



MODEL: HS-AVC07



MODEL: HS-AVC02



MODEL: HS-AVC08



MODEL: HS-AVC03



MODEL: HS-AVC09



MODEL: HS-AVC04



MODEL: HS-AVC10



MODEL: HS-AVC05



MODEL: HS-AVC11



MODEL: HS-AVC06



MODEL: HS-AVC12

OD	Inner conductor	Output Impedance	Length
2.3/2.6/2.8mm	0.12mm CCS*5/7/8/10pcs	75Ω	1.0/1.5/2/5m

# CONNECTORS/CABLES



MODEL: HS-CC01



MODEL: HS-CC07



MODEL: HS-CC02



MODEL: HS-CC08



MODEL: HS-CC03



MODEL: HS-CC09



MODEL: HS-CC04



MODEL: HS-CC10



MODEL: HS-CC05



MODEL: HS-CC11



MODEL: HS-CC06



MODEL: HS-CC12

Double shield	Inner conductor	Output Impedance	Length
3C-2V/RG59/RG6U	0.5mm CCS	75Ω	0.5/1.0/1.5/2/5m

# CATV /SMATV ACCESSORIES



Satellite Finder



Diseqc Switch



Amplifier circuit board

## CATV /SMATV ACCESSORIES

CATV /SMATV ACCESSORIES



MODEL: HS-SF01

Frequency	Supply Voltage	Impedance	Input Level Range
950-2150MHz	13-18V DC	75Ω	-40 ~-10dBm



MODEL: HS-SF02

Frequency	Supply Voltage	Impedance	Input Level Range
950-2150MHz	13-18V DC	75Ω	-40 ~-10dBm



MODEL: HS-SF03

Frequency	Supply Voltage	Impedance	Input Level Range
950-2150MHz	13-18V DC	75Ω	-40 ~-10dBm



MODEL: HS-SF04

Frequency	Supply Voltage	Impedance	Input Level Range
950-2150MHz	13-18V DC	75Ω	-40 ~-10dBm



MODEL: HS-SF05

Frequency	Supply Voltage	Impedance	Input Level Range
950-2150MHz	13-18V DC	75Ω	-40 ~-10dBm



MODEL: HS-SF06

Frequency	Supply Voltage	Impedance	Input Level Range
950-2150MHz	12-20V DC	75Ω	-65 ~-25dBm

# CATV /SMATV ACCESSORIES

# CATV /SMATV ACCESSORIES

CATV /SMATV ACCESSORIES



**MODEL: HS-21A**

Insertion Loss	Frequency	Max. Current	Isolation
3dB	950-2400MHz	500mA	20dB



**MODEL: HS-41A**

Insertion Loss	Frequency	Max. Current	Isolation
3dB	950-2400MHz	500mA	20dB



**MODEL: HS-61A**

Insertion Loss	Frequency	Max. Current	Isolation
3dB	950-2400MHz	500mA	20dB



**MODEL: HS-81A**

Insertion Loss	Frequency	Max. Current	Isolation
3dB	950-2400MHz	500mA	20dB



**MODEL: HS-21B**

Insertion Loss	Frequency	Max. Current	Isolation
3dB	950-2400MHz	500mA	20dB



**MODEL: HS-41B**

Insertion Loss	Frequency	Max. Current	Isolation
3dB	950-2400MHz	500mA	20dB



**MODEL: HS-61B**

Insertion Loss	Frequency	Max. Current	Isolation
3dB	950-2400MHz	500mA	20dB



**MODEL: HS-81B**

Insertion Loss	Frequency	Max. Current	Isolation
3dB	950-2400MHz	500mA	20dB



**MODEL: HS-21C**

Insertion Loss	Frequency	Max. Current	Isolation
3dB	950-2400MHz	500mA	20dB



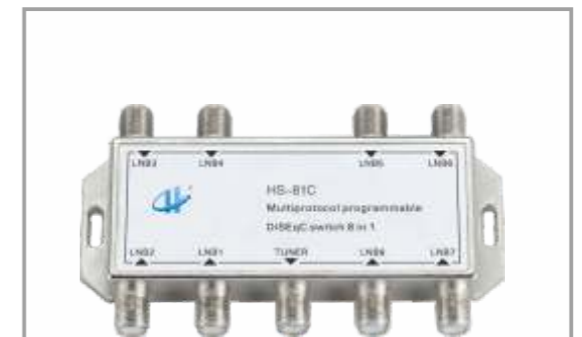
**MODEL: HS-41C**

Insertion Loss	Frequency	Max. Current	Isolation
3dB	950-2400MHz	500mA	20dB



**MODEL: HS-61C**

Insertion Loss	Frequency	Max. Current	Isolation
3dB	950-2400MHz	500mA	20dB



**MODEL: HS-81C**

Insertion Loss	Frequency	Max. Current	Isolation
3dB	950-2400MHz	500mA	20dB

# CATV /SMATV ACCESSORIES



MODEL: HS-SS12A

Frequency	Insertion Loss	Isolation	Return loss
5-2400MHz	≤10.5dB	≥20dB	≥10



MODEL: HS-FS21

Insertion Loss	Frequency	Max. Current	Isolation
3dB	950-2400MHz	500mA	20dB



MODEL: HS-SS13A

Frequency	Insertion Loss	Isolation	Return loss
5-2400MHz	≤10.5dB	≥20dB	≥10



MODEL: HS-FS41

Insertion Loss	Frequency	Max. Current	Isolation
3dB	950-2400MHz	500mA	20dB



MODEL: HS-SS14A

Frequency	Insertion Loss	Isolation	Return loss
5-2400MHz	≤10.5dB	≥20dB	≥10



# CATV /SMATV ACCESSORIES



MODEL: SWA-9000



MODEL: SWA-9999



MODEL: SWA-555



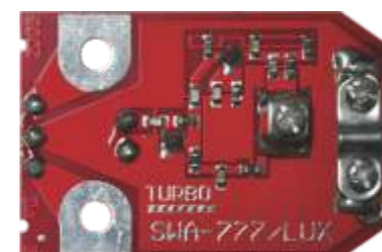
MODEL: SWA-555



MODEL: SWA-9001



MODEL: SWA-9999



MODEL: SWA-777



MODEL: SWA-3501

CATV /SMATV ACCESSORIES