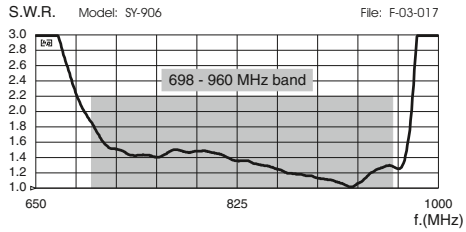
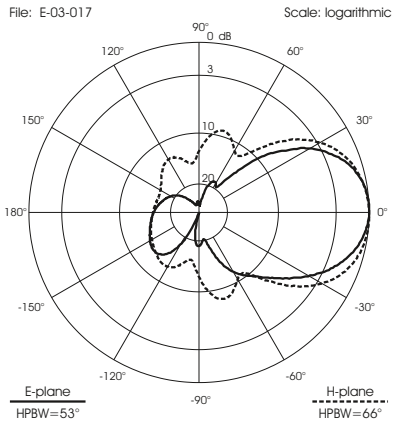


## SY-906

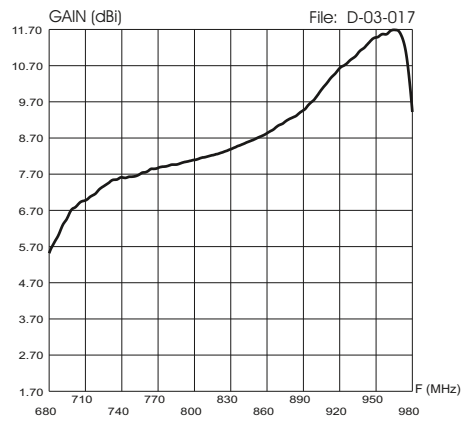
### TYPICAL S.W.R. RESPONSE



### TYPICAL RADIATION PATTERN at 880 MHz

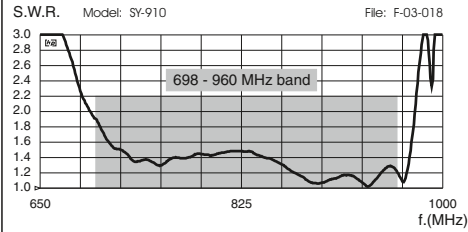


### TYPICAL GAIN DIAGRAM vs FREQUENCY

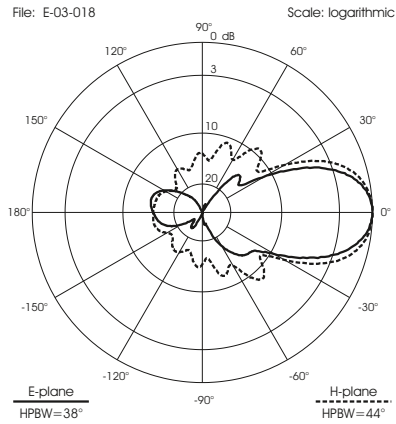


## SY-910

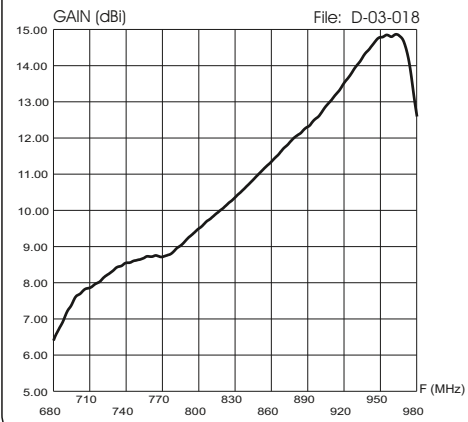
### TYPICAL S.W.R. RESPONSE



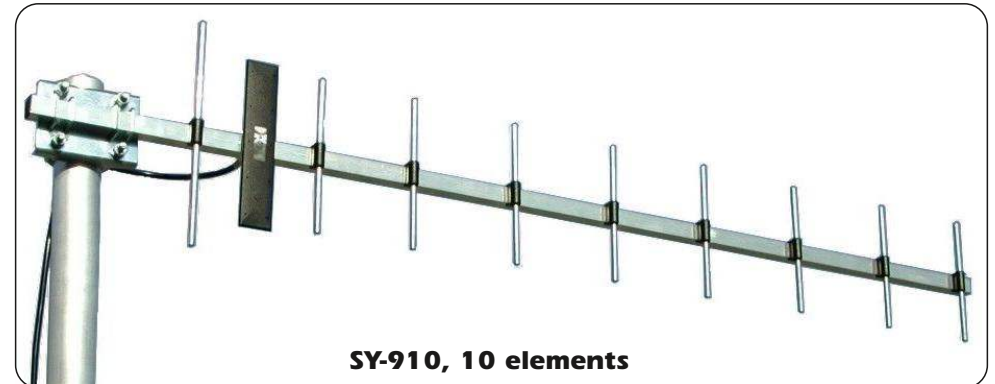
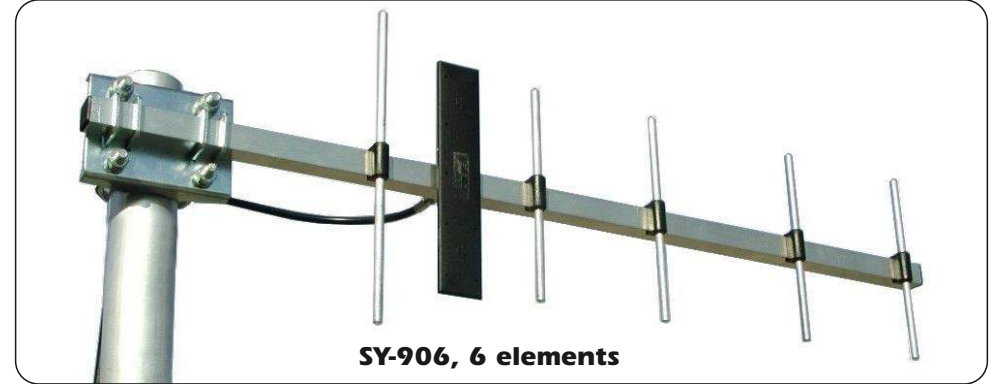
### TYPICAL RADIATION PATTERN at 880 MHz



### TYPICAL GAIN DIAGRAM vs FREQUENCY



## SY-906 SY-910 Base Station Yagi Antennas 698-960 MHz



## DESCRIPTION

Base station antennas conceived for LTE 700, ISM 868 MHz, AMPS, GSM 900 systems working on 698-960 MHz. The boom and the parasitic elements are made of aluminium and radiant dipole is realized on PCB in Microstrip technology protected by thermoplastic.

## SPECIFICATIONS

Electrical Data	SY 906	SY 910
Type	6 elements yagi antenna	10 elements yagi antenna
Frequency Range	698 - 960 MHz (LTE 700, ISM, AMPS, GSM 900)	
Impedance	50 $\Omega$	
Radiation (H-plane) Beamwidth @ -3 dB	66° @ 880 MHz	44° @ 880 MHz
Radiation (E-plane) Beamwidth @ -3 dB	53° @ 880 MHz	38° @ 880 MHz
Radiation angle deg.	0°	
Front to back ratio	≥ 12 dB @ 698 - 880 MHz ≥ 15 dB @ 880 - 960 MHz	≥ 13 dB @ 698 - 880 MHz ≥ 15 dB @ 880 - 960 MHz
Polarization	Linear Vertical	
Max Gain	11.5 dBi	15 dBi
Cross Polarization Isolation	≥ 18 dB	≥ 20 dB
Max Power (CW) @ 30° C	10 Watts	
Grounding Protection	All metal parts are DC-grounded, the inner conductor shows a DC-short	
Connector	FME-male	

## Mechanical Data

Housing & Radome Material	Aluminium, PCB, Thermoplastic	
Bracket & Hardware Material	Galvanized Steel	
Wind Load	27 N @ 150 Km/h	48 N @ 150 Km/h
Wind Resistance	180 Km/h	150 Km/h
Wind Surface	0.02 m <sup>2</sup>	0.03 m <sup>2</sup>
Dimensions (approx.)	210 x 595 x 60 mm	210 x 995 x 60 mm
Turning radius (approx.)	580 mm	960 mm
Weight (approx.)	410 gr	500 gr
Operating Temperature	-20 °C to +80 °C	
Installation type	Mast: $\varnothing$ 25-42 mm with U-bolt	

## MOUNTING INSTRUCTIONS

