



# WIDEBANDWIDTH, YAGI BEAM ANTENNA

Enable to Operate 7-Entirely 7.0~7.2MHz

Efficient Radiation by use of T-Wire Element

**CY402** 2-Element

**CL40B-5** 3-Element

**CL40DX** 4-Element



Model CY402, 2-Ele. Yagi Beam Antenna



ATU. / Driven



ETU, DTU./ Reflector· Director

These models CY402, CL40B-5 and CL40DX are reduced type, Yagi beam antennas assuring a high performance. In the reduced scale type of antenna, a high efficiency will be expected when designing it to set narrow space. Usually the bandwidth is accordingly related to the length of elements, hence these 2 antennas are being applied the entire band by dividing them into 3 bands for the model CY402, while dividing it into 2 bands, by which a high performance are ascertained to derive. In the center section of the each element is equipped with a band turning switching unit, that enables to change and select the band which is remotely controlled. In the tip of element end for which determines the radiation efficiency and performance, a capacitor rod is attached that gives high loading efficiency, works as electrically equal value of 1.6m longer length than mechanical length for both models, that almost as good performance as a full-sized antenna presents, along with using a low-loss loading inductor. Mechanically, utmost consideration is taking into account, a swaged and light weight tubing rod of high strength for element, and alumo-welded capacitor rod are using for reducing an unwanted weight and minimize a wind surface area. Each model is required with 13.8VDC power supply for band switching.

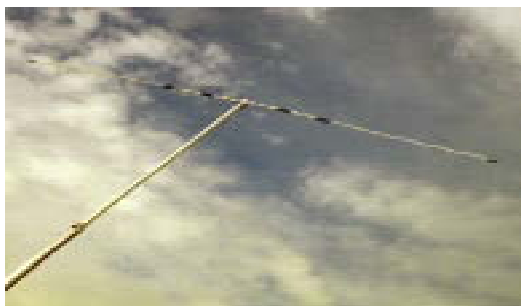
Model	CY402	CL40B-5	CL40B-5
Frequency MHz	7~7.2	7~7.2	7~7.2
Band	3	2	2
No. of Elements	2	3	4
Gain dBi	7.5	9.8	11
F/B, Ave. dB	20	22	20
Input, PEP kW	4	4	4 (CL40DX-1) 8 (CL40DX-2)
Boom Length m	4.98	10.3	15.2
Element Length m	14.0	15.8	16.0
Rotational Radius m	7.5	9.5	10.9
Wind Surface Area m <sup>2</sup>	0.9	1.7	2.2
Weight kg	19	50	68
Control Cable (13.8VDC)	3-Core	2-Core	2-Core



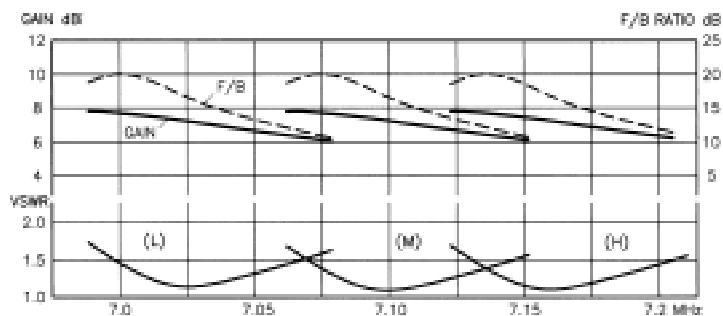
C1/BS-41 Controller

3-band controller for CY402.  
This is a assembly kit.

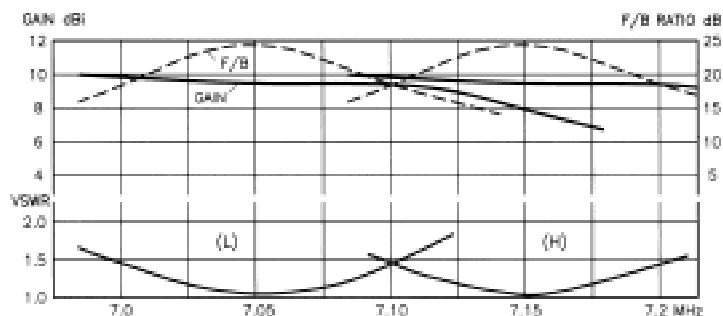
CL40B-5 and CL40DX does not include controller as it is only switching ON-OFF type.



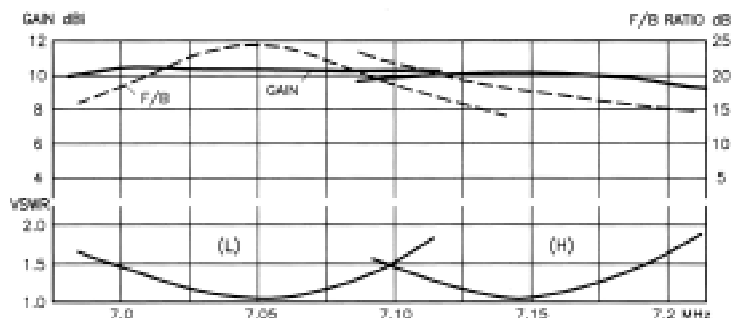
T-Wire • Element



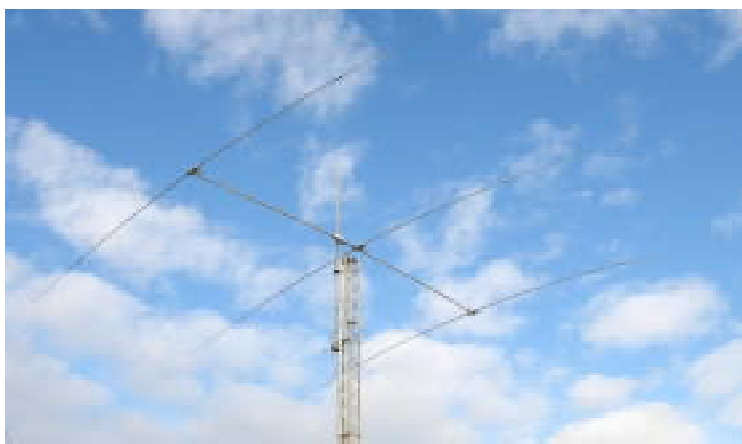
CY402, VSWR, Gain, F/B Ratio



CL40B-5, VSWR, Gain, F/B Ratio



CL40DX, VSWR, Gain, F/B Ratio



Model CL40B-5, 3-Ele. Yagi Beam Antenna



Model CL40DX, 4-Ele. Yagi Beam Antenna

**Upgrade Kit:** For those who currently use AFA40 and CL40B-4, a modification kit enable them to upgrade and operate for the expanded band, is also available.