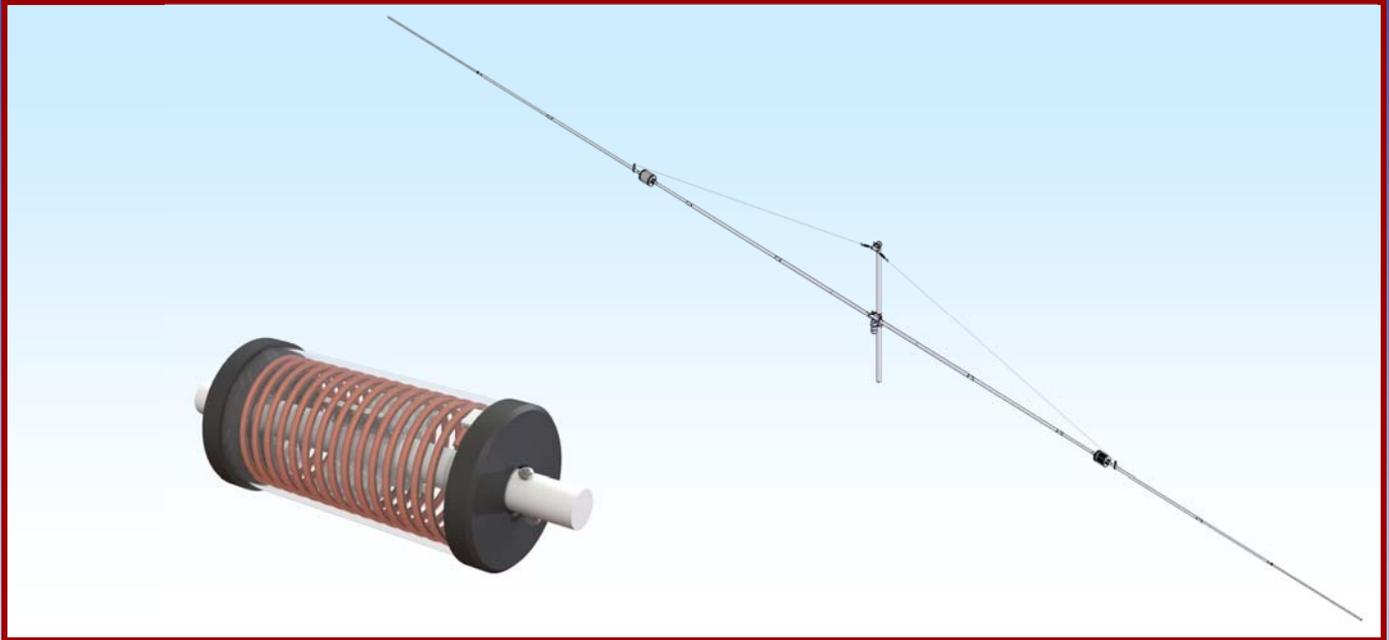




M2 Antenna Systems, Inc.

Model No: 40M1C



SPECIFICATIONS:

Model	40M1C	Input Connector	SO-239 Others Available
Frequency Range tune able	6.9-7.3 MHz X 200 kHz	Power Handling	1.5 kW Higher Optional
*Gain, (FS) / Over gnd.....	1.87 dBi / 7.34 dBi @	Boom Length / Dia	N/A
70'		Element Length / Dia.	46' / 1 1/2" to 1/2"
Front to side.....	15-20 dB Height Depend	Turning Radius:	23'
Beamwidth	E = 84° H = N/A	Stacking Distance	85' Max
Feed type.....	Direct Feed	Mast Size	2" to 3" Nom.
Feed Impedance.....	50 Ohms Unbalanced	Wind area / Survival	3 Sq. Ft. / 100 MPH
Maximum VSWR	2.0:1	Weight / Ship Wt.	22 Lbs. / 25 Lbs.

***Subtract 2.14 from dBi for dBd / FS = Free Space**

FEATURES:

Based on the proven performance of the 40M1L, M2 has improved the antenna even more. This simple antenna combines 30years of design and field experience with CNC machined parts to become the worlds best rotatable, reduced size dipole. The **40M1C** features our new lightweight coils using 3/16" dia. copperweld aluminum wire. The turns are spaced 3/8" apart for maximum power handling. The Q of the coils is just under 1000 so the load loss is a meager 4% ! Total antenna loss is just 0.08 dB. The center insulator is a solid 1-1/4 inch fiberglass rod. There is nothing here to weaken or break from the effects of sun, wind or ice loading.

If desired, optimizing inside the 40 meter band is done by adjusting the 1/2" tip. A 1:1 balun delivers all your transmit power to the antenna with no feed line radiation or pickup. The performance increase of a rotatable dipole is dramatic compared to your typical wire inverted V. Getting the dipole tips horizontal and away from ground improves the front to side ratio, resulting in reduced noise on receive and the ability to put a noise source or station in a null.

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4/11/19
Rev.01