

M2 Antenna Systems, Inc. Model No: 23CM22EZ



SPECIFICATIONS:

Model	23CM22EZ
Frequency Range	1250 To 1300 MHz
*Gain	18.2dbi 1290-1300 MHz
Front to back	28 dB Typical
Beamwidth	E=24° H=24° ??
Feed type	Folded Dipole
Feed Impedance	50 Ohms Unbalanced
Maximum VSWR	1:1 Typical
Input Connector	
-	

.600 Watts
.70" / 0.50"
4.5"
.68"
23" High & 23" Wide
1-1/4" to 2" Nom.
.0.3 Sq. Ft. / 100 MPH
.2 Lbs. / 3.5 Lbs.

*Subtract 2.14 from dBi for dBd

FEATURES:

The 23CM22EZ is a true product of the computer age. The recently updated element design is stamped out holding spacing and element lengths to .003" tolerance. The original fiberglass boom has been replaced with 1/2" dia. aluminum. The metal boom shortens the elements for peak gain at 1296. Each antenna performs as perfectly as the next and the gain tops any other antenna of comparable boom length. With excellent directivity and a very clean pattern, it is perfect for high gain stacked arrays. Applications are long haul tropo, EME, ATV, Repeater, base station and OSCAR operations. The 'EZ' is handy for 'hill-topping' and portable uses because of its modest size, weight, simple construction and rear mounting.

Structurally, the 22EZ elements are fabricated in just TWO sets, eliminating ALL measurement and assembly errors. The Broad band folded dipole driven element design is unique, with a balun and matching inside the folded dipole itself. External connections are limited to a single O-ring sealed "N" feed. Internal connections are sealed in a machined and aluminum brazed housing. When other designs are deteriorating from environmental factors, the '22EZ will still be as good as new and performing to 'spec'!

23CM22EZ ASSEMBLY MANUAL



23CM22EZ ASSEMBLY DETAIL



23CM22EZ PARTS & HARDWARE

DESCRIPTION	QTY
BOOM SECTION #1, 1/2 X 32.125"	1
BOOM SECTION #2, 1/2 X 31.875"	
ELEMENT SET #1, REAR	1
ELEMENT SET #2, FRONT	1
DRIVEN ELEMENT ASSY	
REAR MOUNTING POST, 3/4 X .049 X 7.00 SOE	1
ASSEMBLY MANUAL	1
HARDWARE BAG	QTY
BOOM COUPLING	1
UNI-CRADLE,	1
U-BOLT, 2 SS" (HINDLEY)	1
NUT, 1/4-20, SS	2
LOCKWASHER, 1/4", SS	2
SCREW, 8-32 X 1"	2
LOCKNUT, 8-32	1
LOCKWASHER, 8-32, SS	1
SCREW, 6-32 X 1"	9
LOCKNUT, 6-32, SS	9