



yagi antenna

GMOX

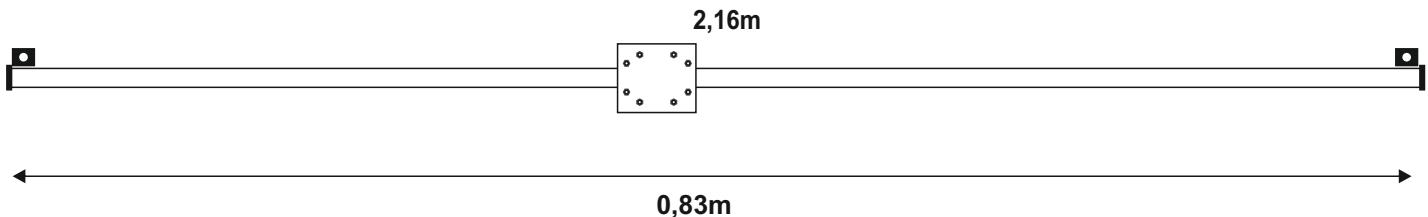
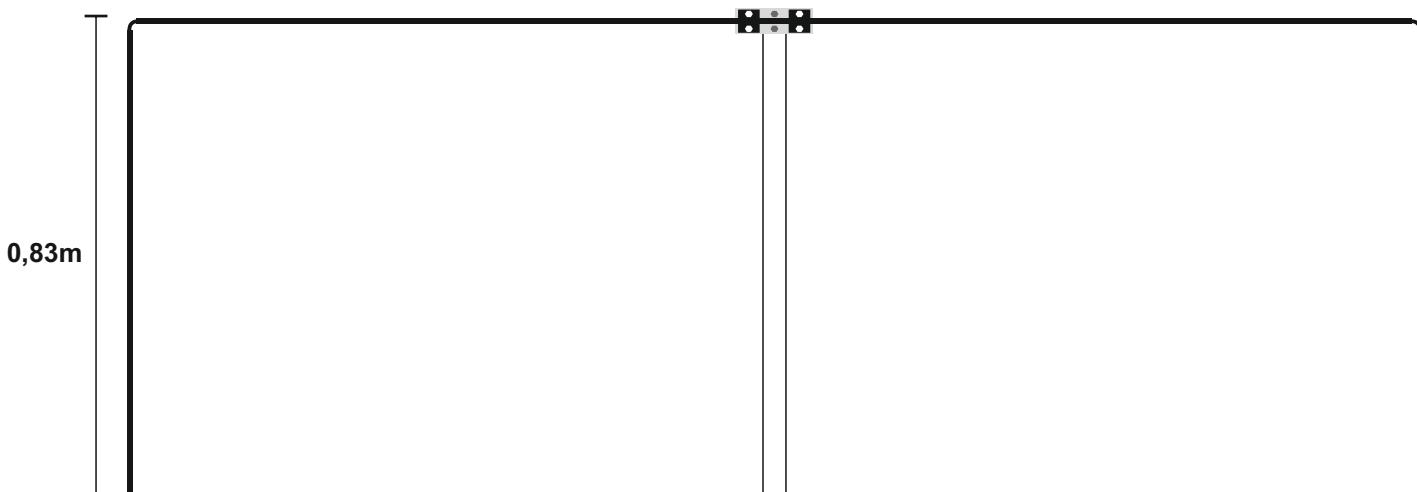
Artikel nr: 17754.06

Thanks for choosing EAntenna.

All of our products are designed and build with the better materials of the market, to offer the best quality and warranty to our customers.

The MOXON yagi antennas was developed by Leslie A. Moxon, G6XN, for use in the HF bands during the end part of the XX century with very good results.

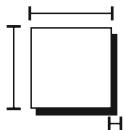
A very good ratio of gain vs boom lenght is very affordable, and the smaller element lenght is a good purpose to use in limit space areas.



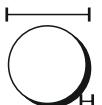
Peso: 2,2Kg.
Max. Potencia: 10,0 kW



	SPECIFICATIONS	Eantenna 6MOX
	Elements:	2
	Frequency Range:	50.0 ~ 54.0 MHz
	Gain:	6,00 dBi
	F/B:	> 30 dB
	Bandwidth:	1200 KHz.
	SWR:	1,0:1~1,3:1
	Impedance	50 Ohms
	Max. Power:	10 kW.
	Max. Element Length:	2,16 m. / 7'
	Boom Length:	0,83 m / 32,7 Inch
	Wind Survival	200 kmh / 120 mph
	Weight:	2,2 Kg. / 4,8 Pounds

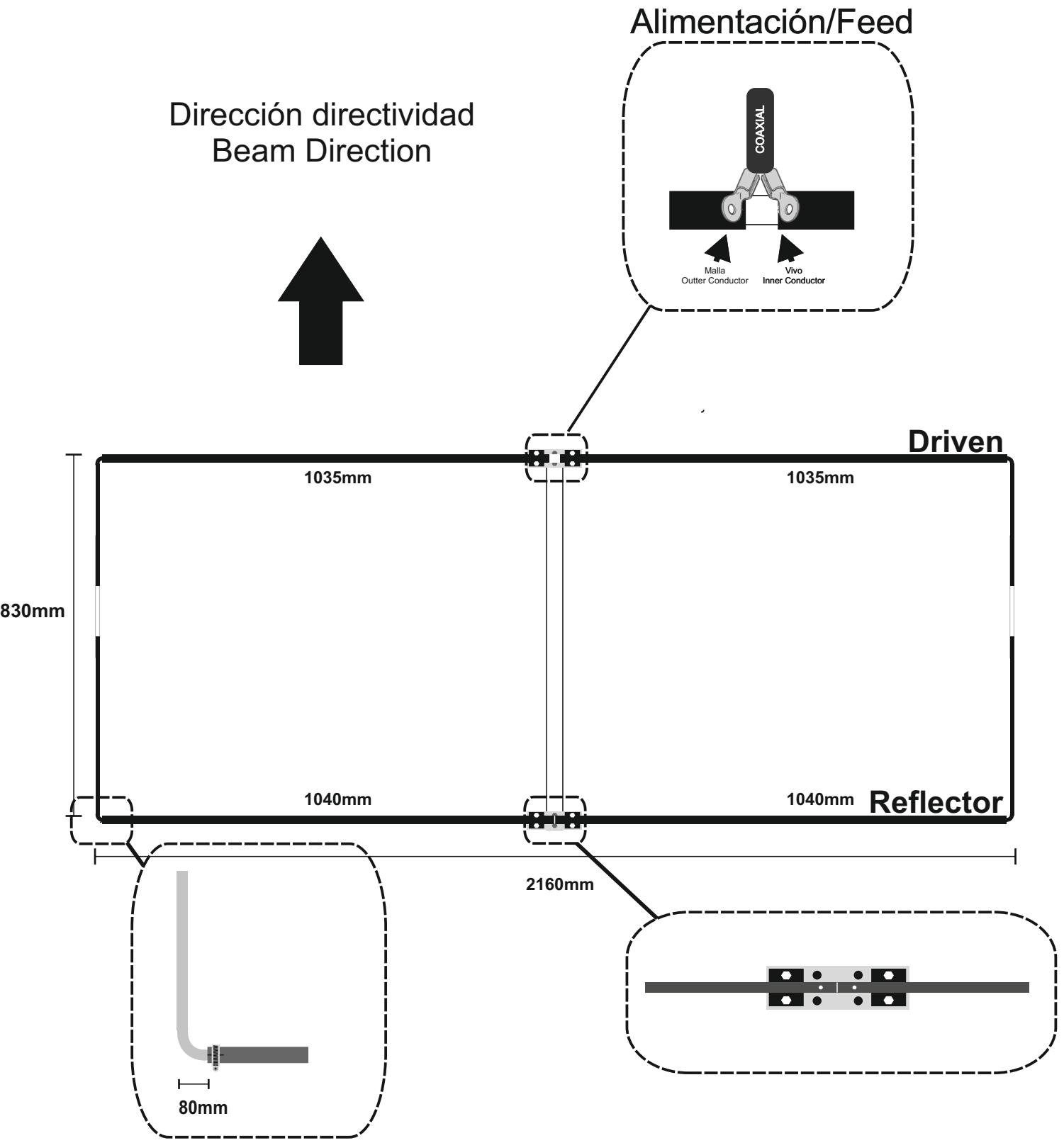


Boom size: 25x25x2mm

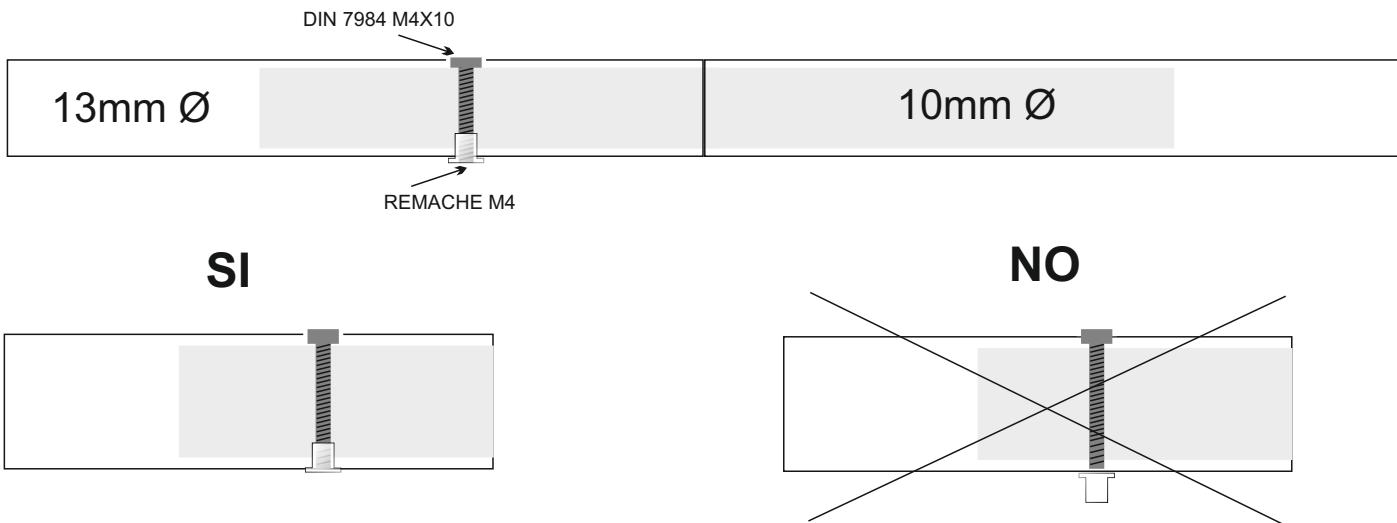


Element Diameter: 13x1mm ~ 10x1mm

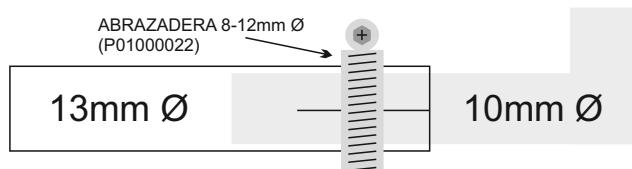
Dirección directividad
Beam Direction



El ensamblaje de los elementos, una vez seleccionados todos las longitudes, colocar en cada mitad de 13mm Ø frontalmente, introduciendo uno a uno, los tubos de 10mm Ø x 200mm (**EA0120010**) en una de las mitades. Una vez ya fijada la primera parte de un elemento, introducir la siguiente mitad y fijarla de nuevo con los tornillos DIN 7984 M4X10 y el remache M4 que aparece detallado debajo. Tener en cuenta que la **cabeza del tornillo** tiene que **quedarse alojada dentro del hueco de mas diámetro del elemento**.



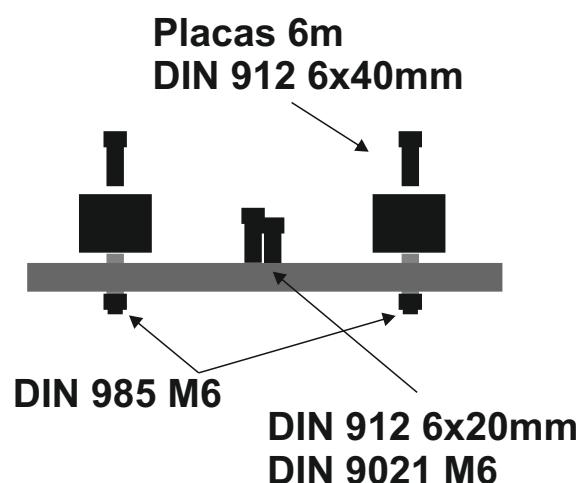
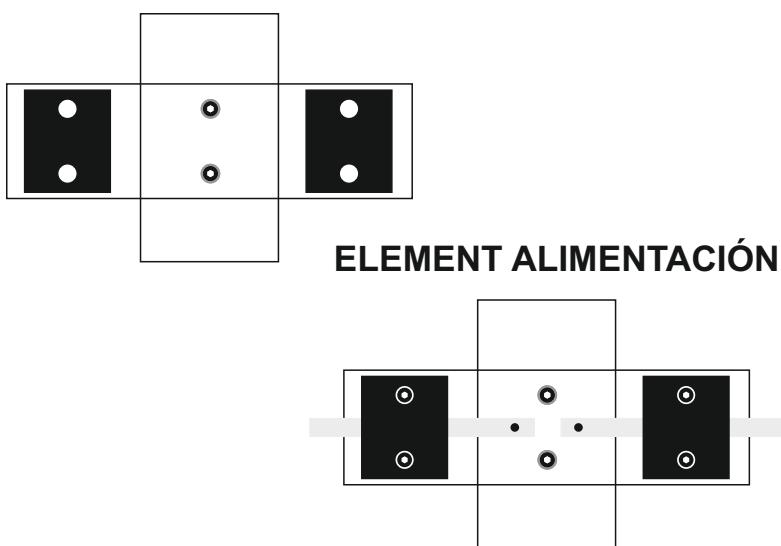
La fijación de los elementos del Rectangulo DE, es mediante abrazadera **Sin/Fin 8-16mm (P0100022)** de los elementos de 13 a 10mm.



Las medidas de la pagina 2 están expresadas en medidas exteriores, o sea, midiendo desde cada extremo del tubo. Una vez que los elementos estén ensamblados correctamente, se procede a poner cada elemento en la placa al boom, con lo que sería el ultimo paso de montaje. Unir las placas al boom como se especifica debajo.

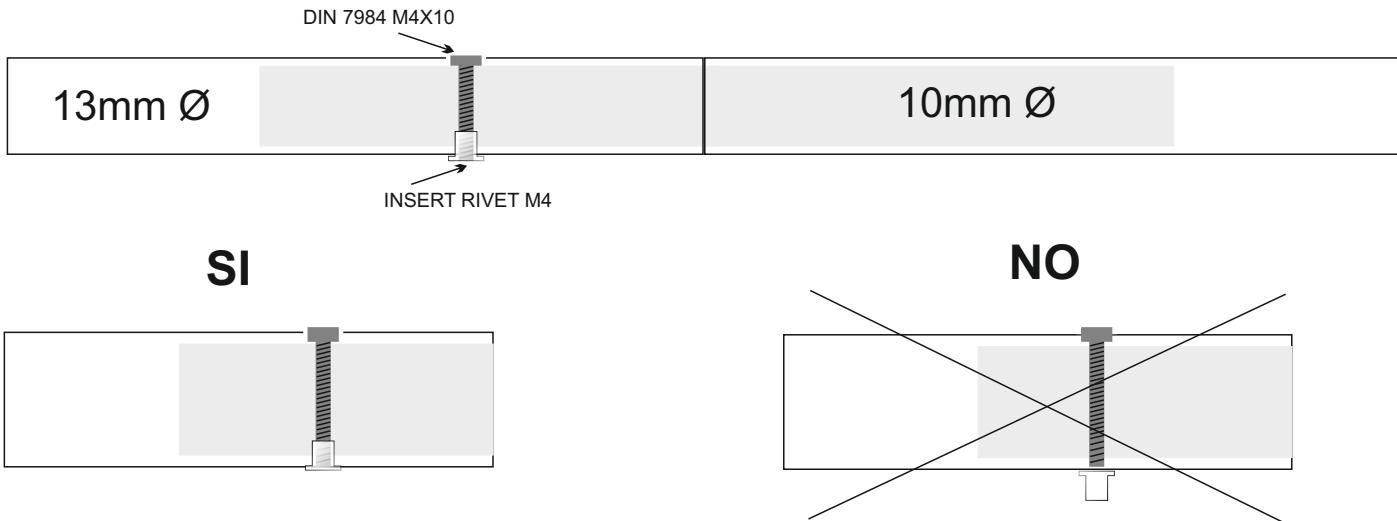
Una vez que tiene los elementos ensamblados, y el boom, es momento de **montar** los las placas al boom y después los elementos a la placa. Lo que **aconsejamos** es que se **empiece por el las placas al boom, si montara la antena de una pieza**. Si lo que **quiere** es subir los elementos, una vez el **boom puesto en el mástil**, aconsejamos poner los elementos a las placas para su mejor union del conjunto "placa/elemento" al boom.

Para poner los elementos a la placa, tendría que centrar con la ayuda de una cinta métrica, cada elemento de 13mm Ø, a la mitad (60cm), y una vez centrado, fijar con la otra parte del (**EAHYP013**) con los tornillos **DIN 912 M6X40**, como aparece en el dibujo inferior.

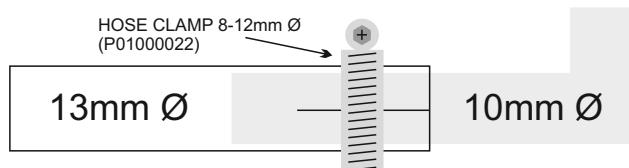


Para colocar cada placa al boom, se fija mediante los tornillos **DIN 912 M6X20** y arandela **DIN 9021 M6**. Esta placa debe de quedar bien firme para la colocación del elemento. El paso siguiente sería igual que los demás elementos, **pero teniendo en cuenta que los tornillos que utilizaremos son DIN 912 M6X40 y tuercas autoblocante DIN 985 M6 una vez que esté ensamblada toda la antena**.

The assembly of elements, once selected all lengths, place in each half of Ø 13mm front, insert one by one, the tubes of 10mm diameter x 200mm (**EA0120010**) in one of the 13mm tube. Once fixed and the first part of an item, enter the next half and secure again screws DIN 7984 M4X10 and the M4 Insert rivet which is detailed below. **Note that the screw head has to be accommodated within the bigger hole in element.**



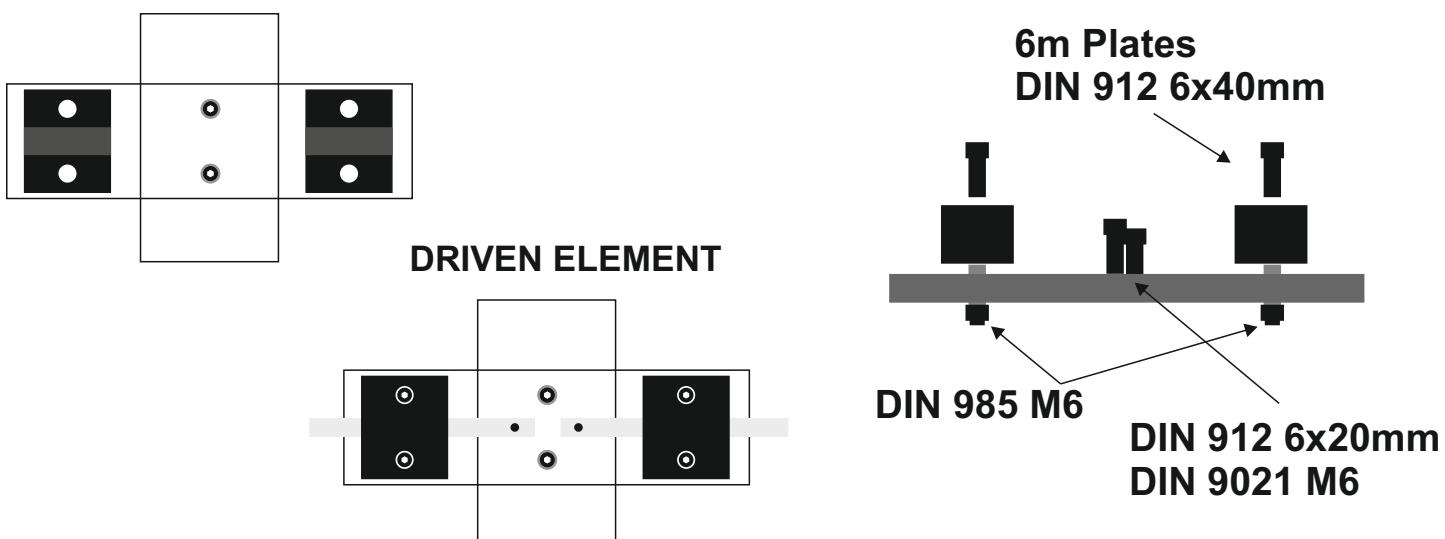
The fixing of the LOOP element, each element is using a Hose Clamp 8-12mm (P0100022) the 13 to 10mm diameter.



Measures page 2 are expressed in external lenght, ie, measuring from each end of the tube. Once elements are assembled correctly , proceed to put each item on the plate to the boom , which would be the last step assembly . Attach plates to boom as specified below .

Once you have the elements assembled, it's time to mount the plates to the boom and then the elements to the plate.
What we advise is to start with the plates to the boom, if you rise up the antenna in one piece. If you want to raise the elements once the boom is placed on the mast, we recommend putting the elements to the plates for their best way of the "plate / element" assembly to the boom.

To add the elements to the plate would have to focus with the help of a tape measure, each element of Ø 13mm, mark in the half with a edding, and a once centered fix to the plate with the green plastic blocks (**EAHYP013**) with screws **DIN 912 M6X40**, as shown in the drawing below .

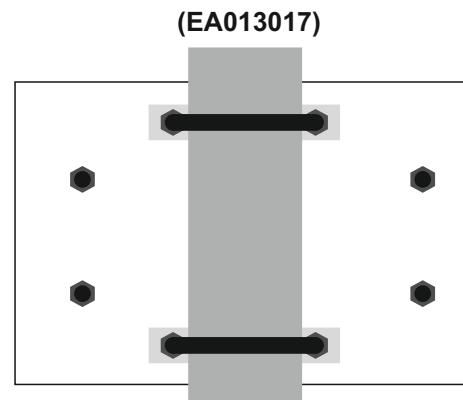
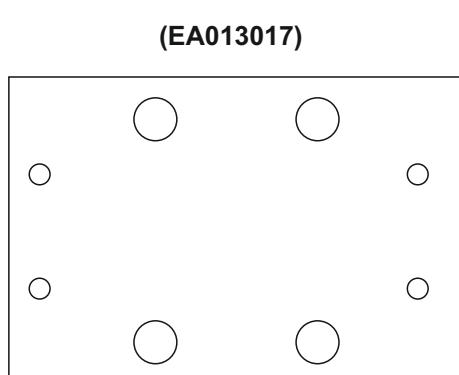


To place each plate to the boom, are fixed by screws **DIN 912 M6X20** and **DIN 9021 M6** washer. This plate must be very firm for positioning the element. The next step would be like the other elements, **but considering that the screws use are DIN 912 M6X40 and DIN 985 M6 self-locking nuts once it is all assembled antenna.**

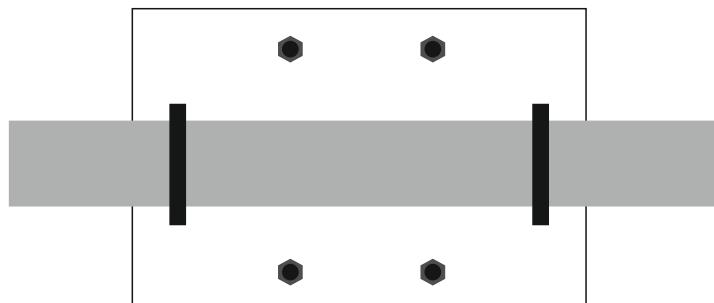
La placa de sujeción BOOM/MÁSTIL (EA013017) de 100X100X6mm consta de 8 agujeros; 4 para los abarcones redondos y 4 para los abarcones cuadrados que sujetan el BOOM.

Los abarcones redondos de M6 (A-0891), van fijados mediante arandela DIN 9021 M6 y tuerca DIN 934 M6 proporcionadas en el mismo abarcon.

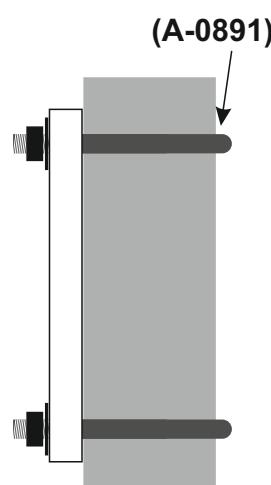
Detallamos dibujos para una mayor ilustración:



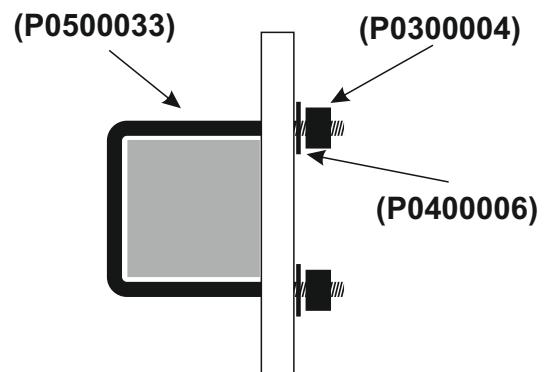
Front view from Mast



Front view from BOOM



Vista lateral desde el mástil



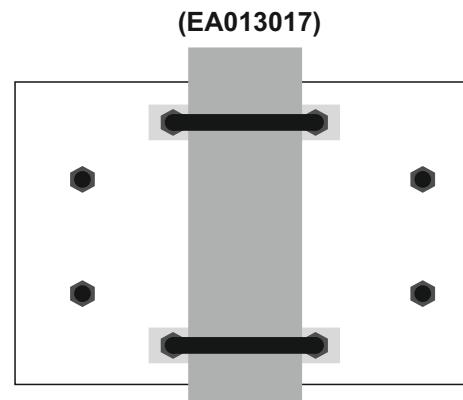
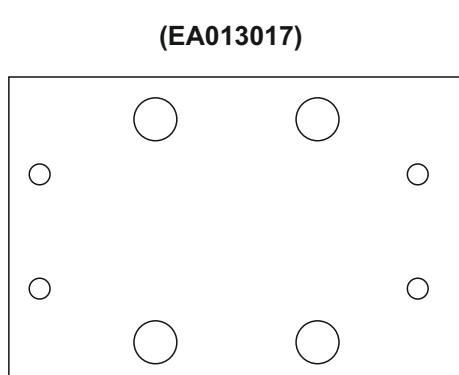
Vista lateral desde el BOOM

MAST TO BOOM PLATE ASSEMBLY

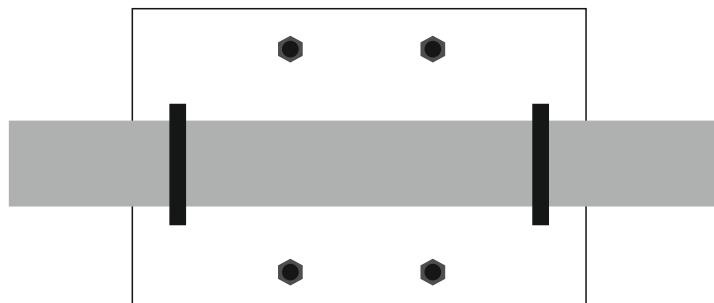
ENGLISH

The clamping plate **BOOM / MAST (EA013017)** 100X100X6mm consists of **8 holes**; **4 thick for round U-bolts** and **4 square U-bolts for securing the BOOM**.

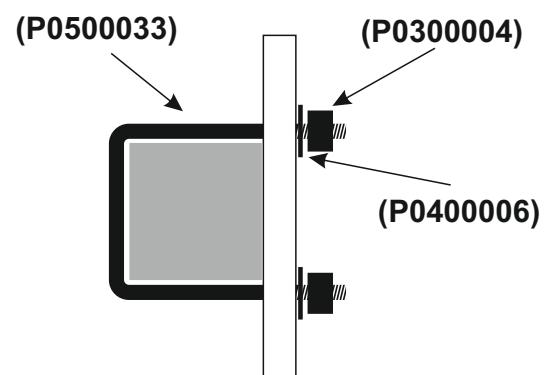
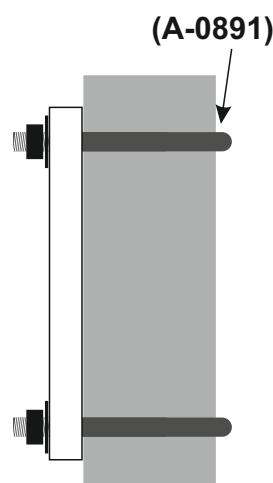
Round U-bolts M6 (A-0891), are secured by washer **DIN 9021 M6** and nut **DIN 934 M6** provided in the same U-bolt.
Detailed drawings for further illustration:



Front view from Mast



Front view from BOOM



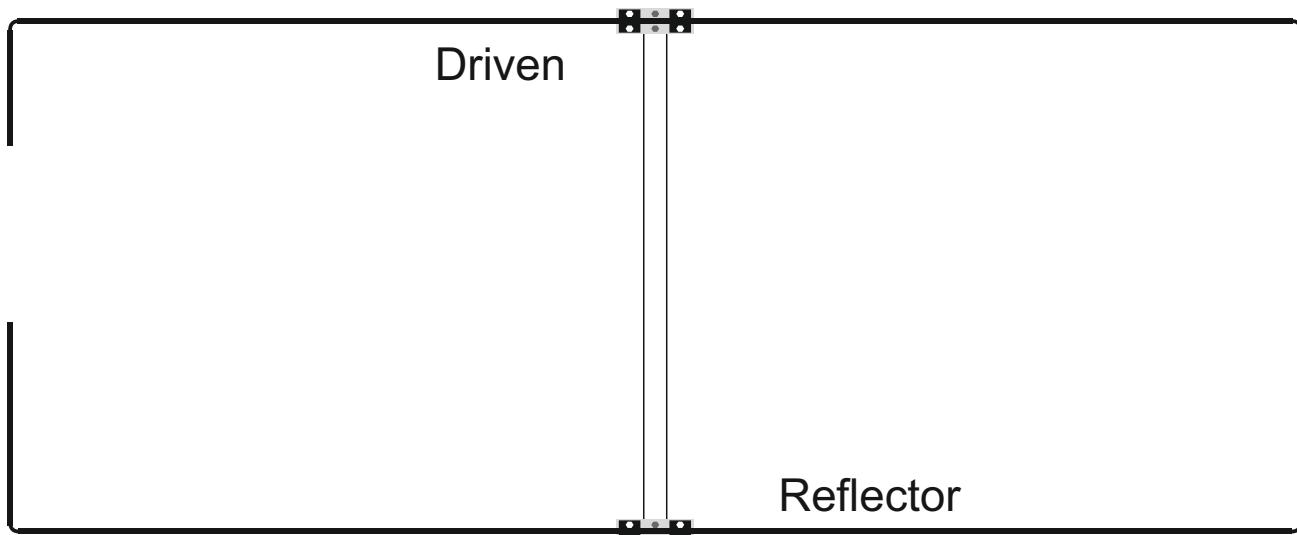
Side view from Mast

Side view from BOOM

Montaje correcto:

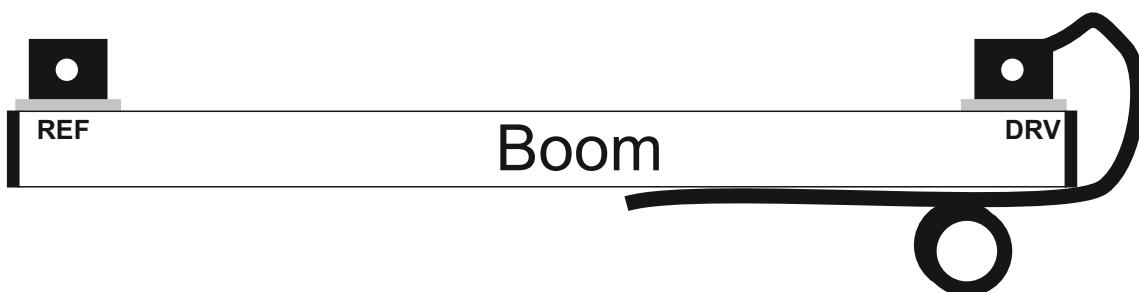
ESPAÑOL

Dirección directividad
Beam Direction

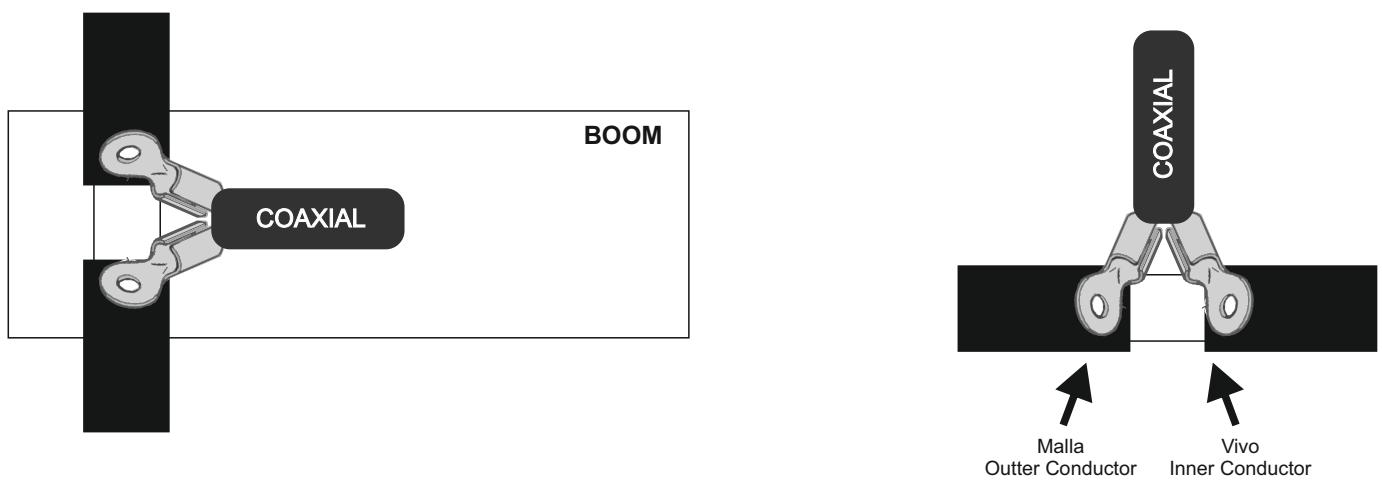


Alimentación mediante coaxial:

Después de varios ensayos, vemos que el balun de aluminio hace peor trabajo que un choque de coaxial. Por esto, recomendamos hacer a escaso centímetros o metros de la alimentación, un choque del coaxial de bajada de 5 vueltas de 8 centímetros de diámetro y así el retorno de RF será mínimo o nulo. En el dibujo aconsejamos que siempre el choque se haga por debajo de los elementos para que el coaxial no haga interacción con los elementos.

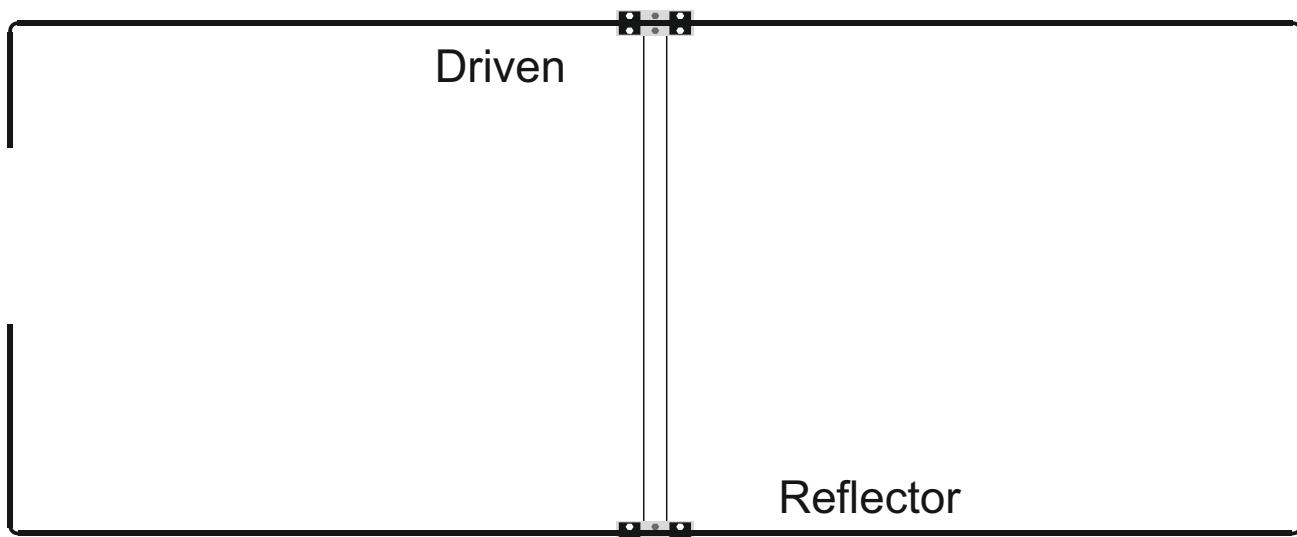


!Hagalo lo mas corto posible!



Montaje correcto:

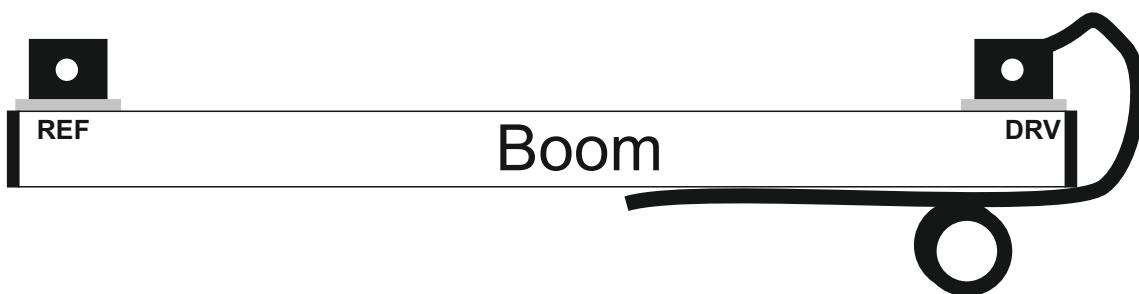
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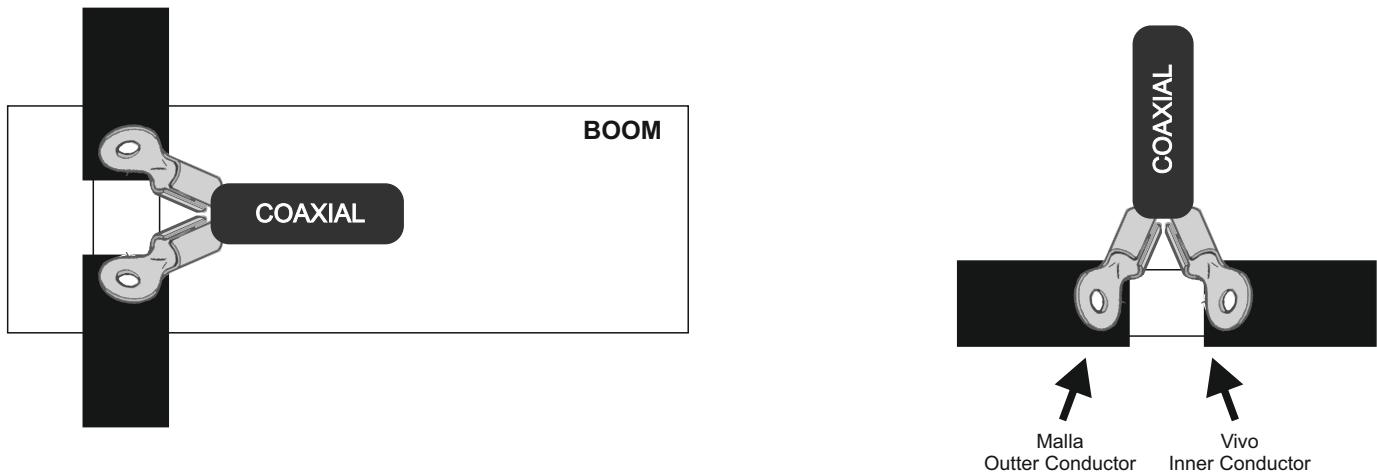
Coax cable feeding:

After several trials, we see that the balun aluminum makes it worse job than a coaxial choke. For this, we recommend 5 turns of 8 cm and thus the RF return will be minimal or absent.

The below drawing advise you how to do the clash below the boom to avoid interaction with the elements.



Keep the splice as short as possible !



Plotter de Azimut

Azimuth Plot

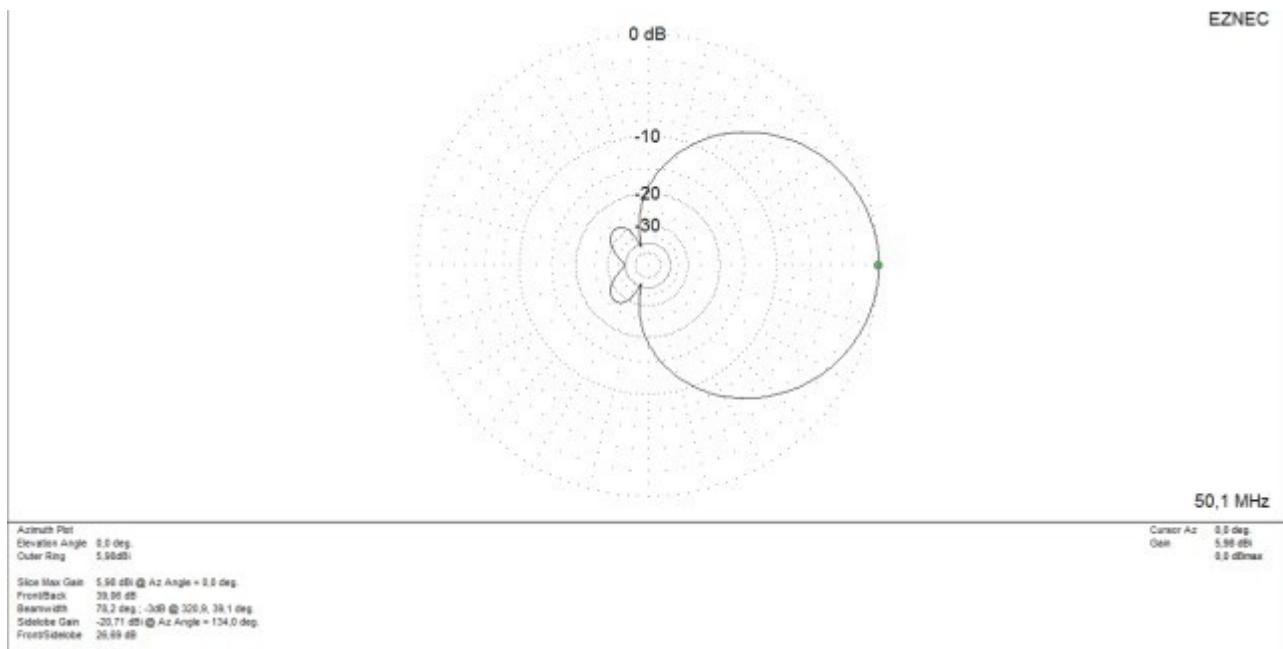
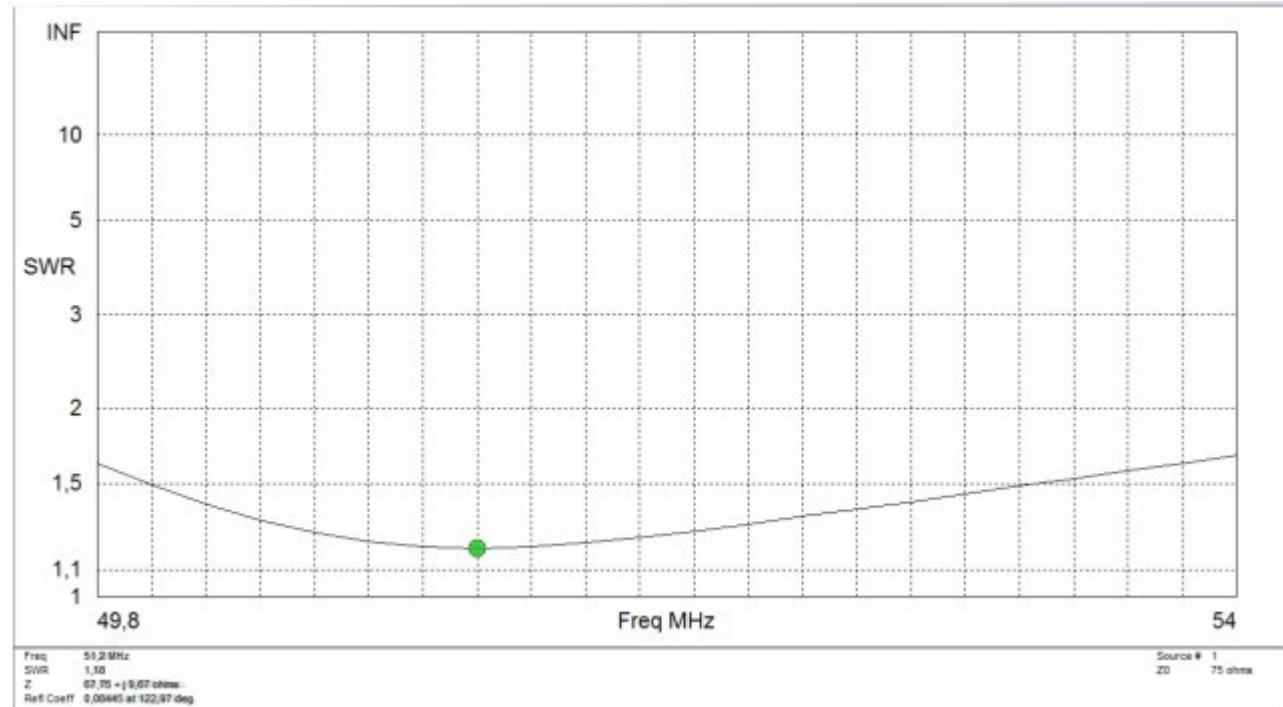


Gráfico de R.O.E.

SWR graphic



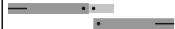
17754.06.ST1
PACKING LIST
LISTA DE PIEZAS
BOLSA 1 - BAG #1

PART # PIEZA N°	IMAGEN PART IMAGE	DESCRIPCION DESCRIPTION	MEDIDAS SIZES	CANTIDAD QUANTITY
EA013017		Placa Mástil/Boom Mast and Boom plate	100 x 100 x 6mm	1
A-0891		Abarcon 52mm 52mm U-Bolt.	M6	2
P0500025		Abarcon Cuadrado Square U-bolt	M6 x 25mm	2
S9021-96		DIN 9021	M6	8
S934-96		DIN 934	M6	8
P1300001		Llave Allen	5mm	1
P1300003		Llave Fija	10mm	1
EA0120010		Pieza unión elementos Join elements part	200mm x 10mm Ø	1

17754.06.ST2**BOLSA 2 - BAG #2**

PART # PIEZA N°	IMAGEN PART IMAGE	DESCRIPCION DESCRIPTION	MEDIDAS SIZES	CANTIDAD QUANTITY
EA010026.4		Placa para Elementos Elements plates	150x50x4mm	2
S912-9620		Tornillo Allen DIN 912 Allen DIN 912 Screw	M6x20mm	4
S9021-96		DIN 9021	M6	4
EAHYP013		Plásticos Plastic Blocks	13mm Ø	4
S912-9640		Tornillo Allen DIN 912 Allen DIN 912 Screw	M6x40mm	8
S985-906		Tuerca Autoblocante DIN 985 DIN 985 NUT	M6	8
P0100022		Abrazadera Sin-Fin Hose clamp	8-12mm	4
S7984-9410		Tornillo Allen DIN 7984 Allen DIN 7984 Screw	M4x10mm	2
RIVSS_M4		Remache M4 M4 Insert	M4	2

PACKING LIST
LISTA DE PIEZAS

PART # PIEZA N°	IMAGEN PART IMAGE	DESCRIPCION DESCRIPTION	MEDIDAS SIZES	CANTIDAD QUANTITY
EABOOM6MOX		BOOM	830mm x 25mm	1
EA01131040_1		Reflector 13mm	1040mm x 13mm Ø	2
EA01131035_A		Elemento Exitado 13mm Driven Element 13mm	1035mm x 13mm Ø	2
EALOOP6MOX		Sección Tubo 10mm 10mm Tube section	780mm x 10mm Ø	1