

TUNING TABLE

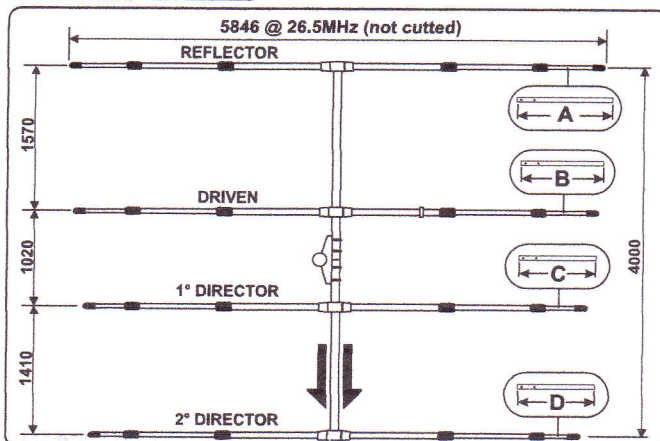
Freq. (MHz)	A (mm)	B (mm)	C (mm)	D (mm)	L1 (mm)	L2* (mm)
26.5 (not cutted)	813	620	460	356	937	485 ± 5
27.0	760	570	412	310	890	490 ± 5
27.5	707	520	367	266	840	488 ± 5
28.0	656	474	322	224	789	486 ± 5
28.5 (10 m band)	608	428	280	183	748	483 ± 5
29.0	560	385	238	143	706	480 ± 5
29.5	516	342	200	105	676	476 ± 5
30.0	472	302	160	68	646	471 ± 5

* For the best tuning, please adjust only the gamma match L2 with an SWR-Meter, about indicated range.

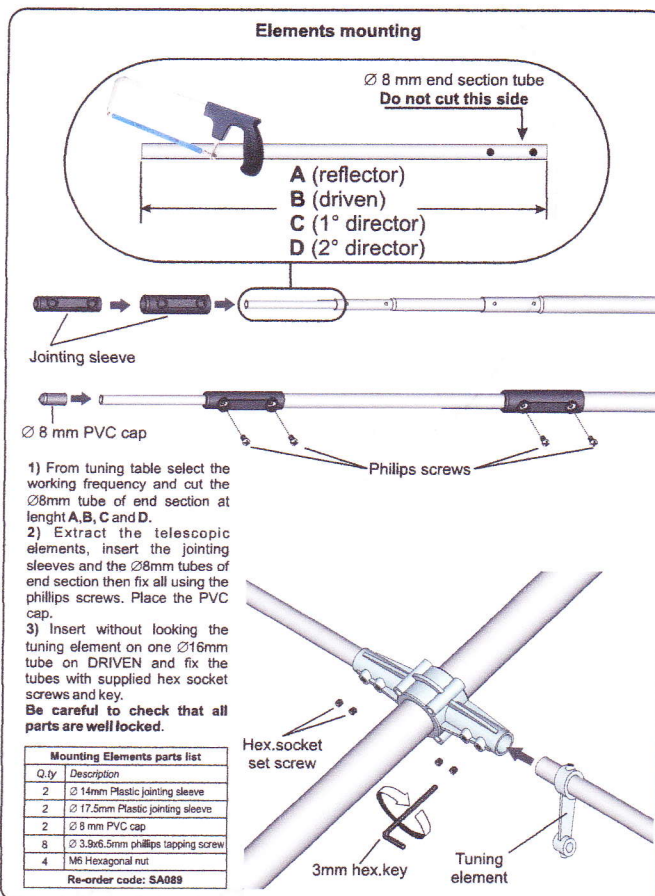
Mounting needed tools:

- n. 1 tape rule (meter)
- n. 1 hacksaw
- n. 1 screwdriver cross point
- n. 1 10mm open key
- n. 1 13mm open key

REMARK: use a good coax cable like RG-8 or RG-213 as short as possible to get the best performance and we recommend to mount your antenna as far as possible from metall roofs, walls, power lines and other antennas.



Elements mounting

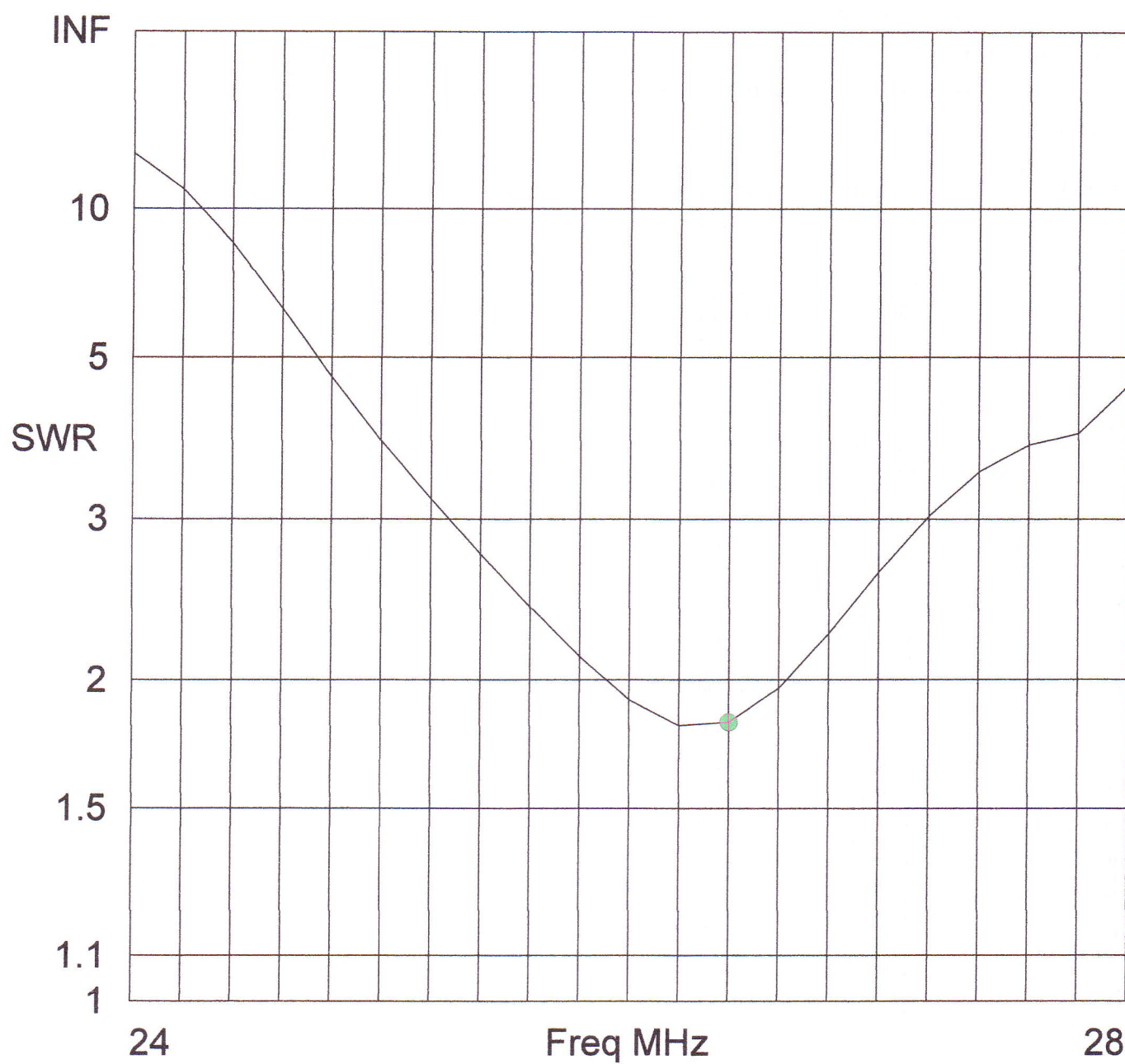




A polar plot showing the magnitude response of the closed-loop transfer function. The plot is on a semi-circular grid with concentric dashed circles representing magnitude levels in dB: 0 dB, -5 dB, -10 dB, -15 dB, -20 dB, and -30 dB. The radial axis is labeled with these values. The plot shows several curves: a black curve, a blue curve, and a cyan curve. A green dot is marked on the rightmost curve at approximately -20 dB. A green line connects the origin to this dot. A magenta line also originates from the origin and points towards the right side of the plot.

26.3 MHz

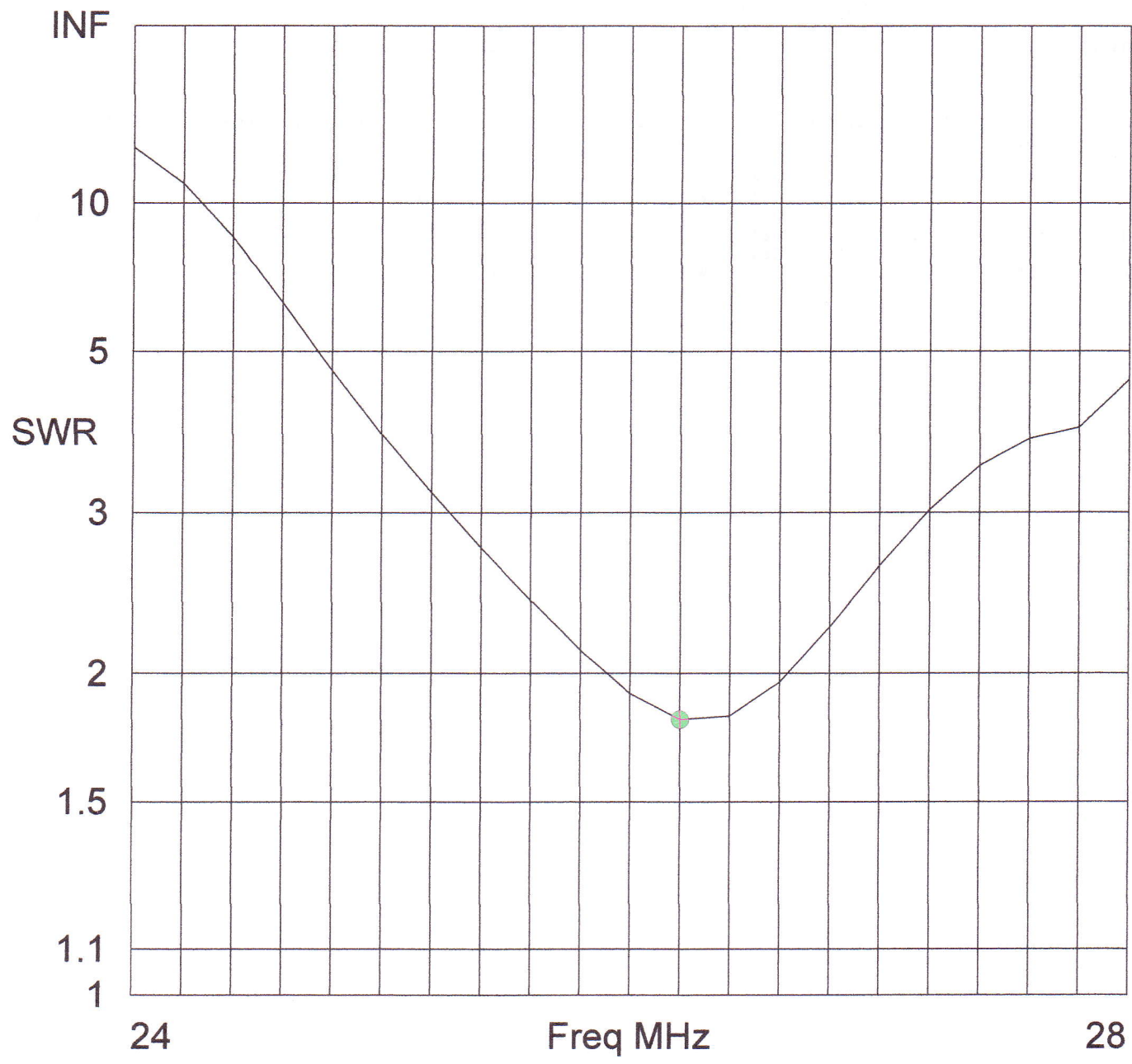
Slice Max Gain	13.22 dBi @ Elev Angle = 14.0 deg
Beamwidth	15.2 deg.; -3dB @ 6.9, 22.1 deg.
Sidelobe Gain	9.54 dBi @ Elev Angle = 47.0 deg.
Front/Sidelobe	3.68 dB



Siro Sy27 4 to Specs 36'

Freq 26.4 MHz
SWR 1.81
Z 27.87 at 6.21 deg.
= 27.71 + j 3.017 ohms
Refl Coeff 0.2893 at 170.07 deg.
= -0.285 + j 0.04988
Ret Loss 10.8 dB

Source # 1
Z0 50 ohms



Siro Sy27 4 to Specs 36'

Freq	26.2 MHz	Source #	1
SWR	1.8	Z0	50 ohms
Z	28.67 at -10.43 deg. = 28.2 - j 5.188 ohms		
Refl Coeff	0.286 at -162.82 deg. = -0.2732 - j 0.08447		
Ret Loss	10.9 dB		

EZNEC ver. 5.0

Siro Sy27 4 to Specs 36'

12/15/2014

5:53:05 PM

----- SOURCE DATA -----

Frequency = 26.3 MHz

Source 1 Voltage = 52.9 V at 0.0 deg.
 Current = 1.892 A at 2.32 deg.
 Impedance = 27.94 - J 1.13 ohms
 Power = 100 watts
 SWR (50 ohm system) = 1.791 (75 ohm system) = 2.685