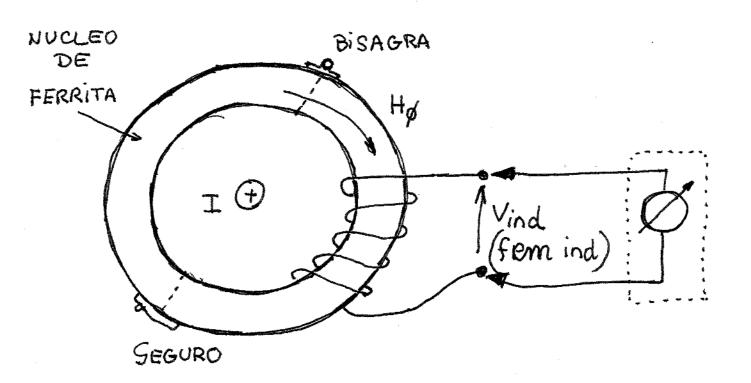
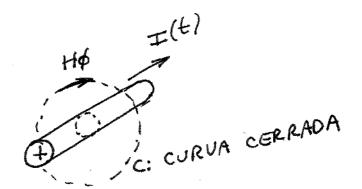
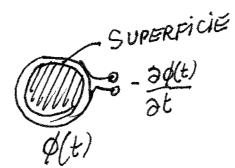
## PUNTA DE CORRIENTE





$$\int_{C} \vec{H} \cdot d\vec{l} = \int_{S} \vec{J} \cdot d\vec{s} + \int_{S} d\vec{D} \cdot d\vec{s}$$



INPEDANCIA DE TRANSFERENCIA

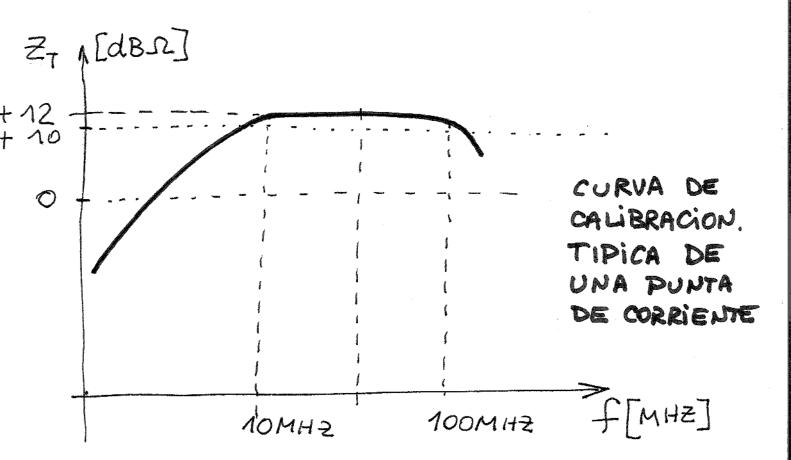
$$\frac{2}{I} = \frac{Vind}{I}$$

SE OBTIENE UNA CURVA DE CALIBRACIÓN ZT (frec)

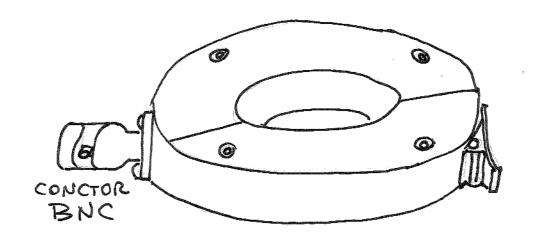
I: CORRIENTE A MEDIR (CONOCIDA)

Vind: TENSION EN EL ARROLLAMIENTO (MEDIDA)

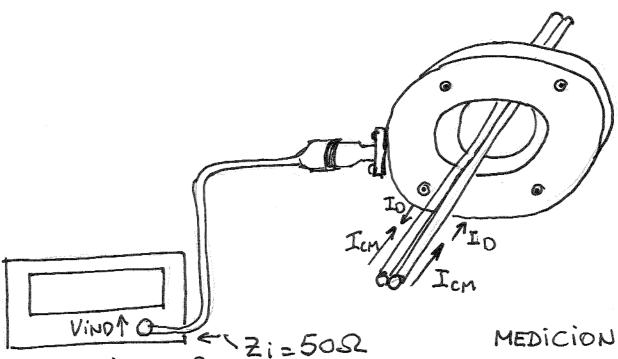
GENERALMENTE SE DA:



SIRVE PARA MEDIR IMC ENTRE 10MHZ / 100MHZ



PUNTA DE
CORRIENTE
O
SENSOR DE
CORRIENTE



ANALIZADOR DE ESPECTRO MEDICION DE VINDUCIDA

Icm: CORRIENTE DE MC A DETER MINAR E JEMPLO :

DEL EJEMPLO ANTERIOR

CISPR 22 DICE EMAX 100 dU/m d=10m $(40 dB\mu V/m) f=30 MH2$ 

DL=1m CABLE

IMAX | M.COMUN = 26,5 MA. (28,46 dB, MA)

|V|dBMV = |I|dBMA + |ZT|dBS2 |V|dBMV = 28,5dBMA + 12dBS2 |V|dBMV = 40,46dBMV.

 $20\log \frac{V}{1/V} = 40.46 dB\mu V.$   $V = 10^{\frac{40.46}{20}}.\mu V. = 105.5 \mu V.$   $V = 105.5 \mu V.$ 

TENSION MEDIDA MAXIMA EN LA SONDA DE CORRIENTE PARA CUMPLIR LA NORMA. SE HA VISTO PARA MODO COMÚN EL/EMAXI

|EMAX = 1,256.106 AL. Io.f [V/m]

SI SE REEMPLAZA ZT = Vind

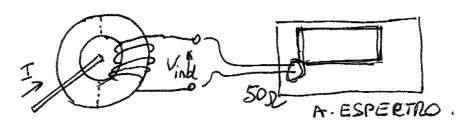
I

|EMAX = 1,256.106 AL. |Vind | f

d.|ZT|

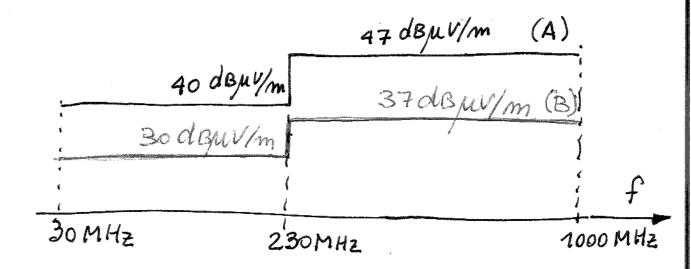
| Vind | = | [MAX | d | Z7 | [UV] 1,256.106. AL.f

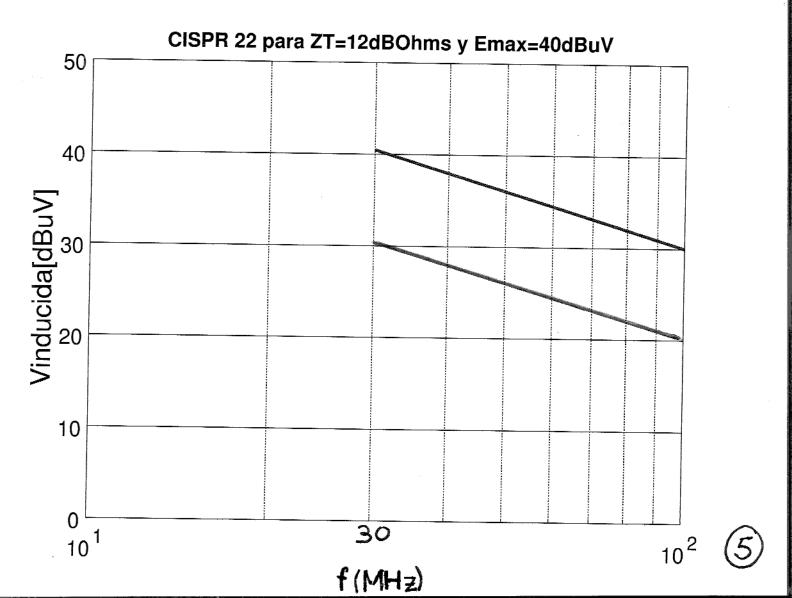
DA DO UN CAMPO MAXIMO PARA LA I. DE M.COMUN Y LA PUNTA DE CORRIENTE CON SU ZT, SE OBTIENE LA TENSION INDUCIDA MAXIMA QUE SE DEBE MEDIR EN EL ANALIZADOR DE ESPECIRO



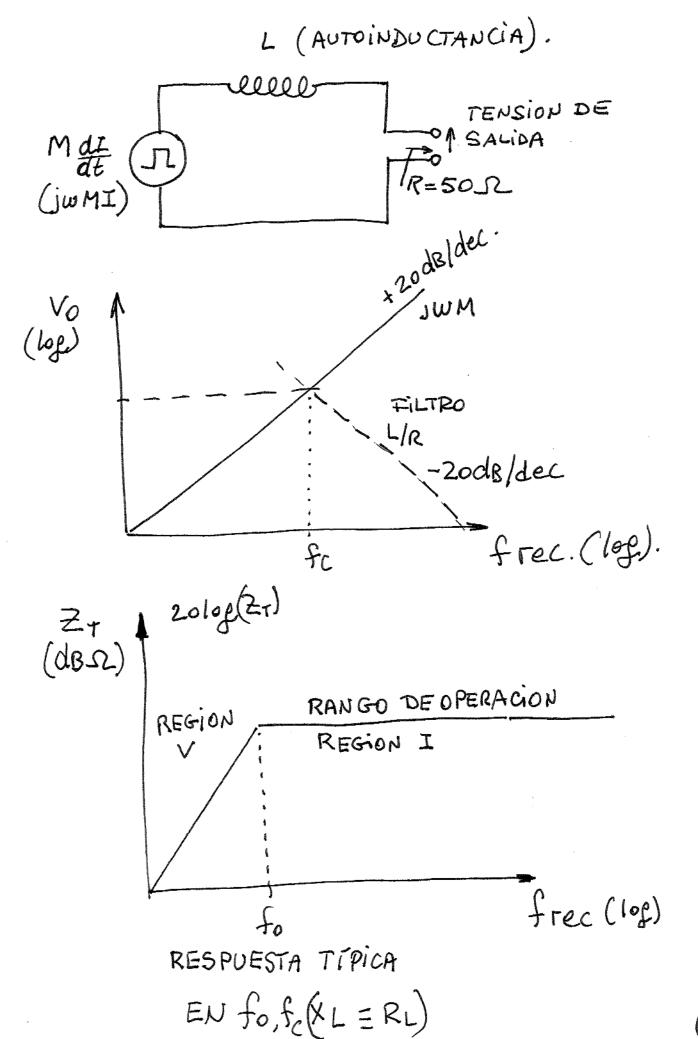
 $|V| = 40 dB \mu V/m + 12 dB \Omega + 20 log 10 - 20 log (30.10^6) - 10 log (1.256.10^6) = 40 dB \mu V.$ 

## cisPR 22 , d=10m





## CIRCUITO EQUIVALENTE



jumi I2 & Ru Vout

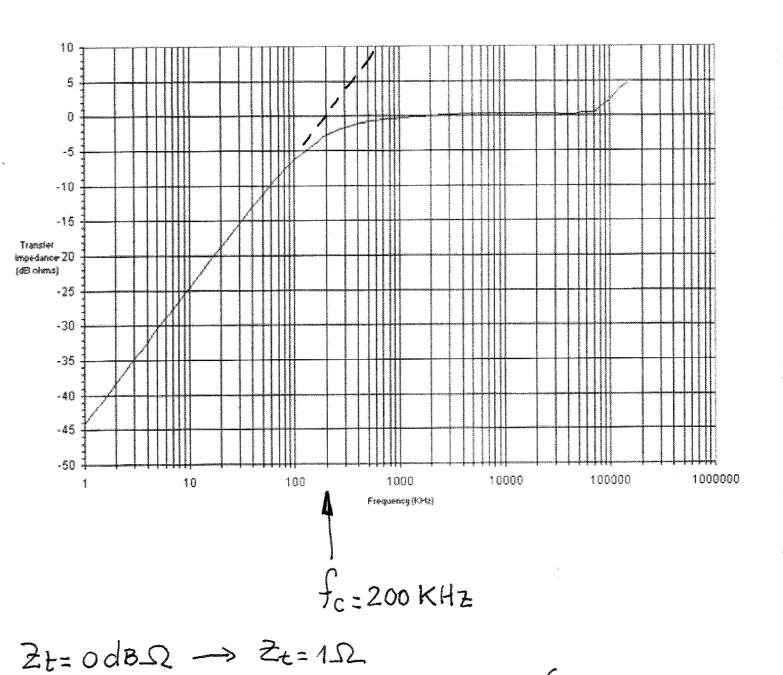
I : CORMENTE EN EL PRIMARIO.

$$Z_{t} = \frac{M}{L} \cdot 2TT_{c}L$$

$$M = \frac{Z_{t}}{2\pi f_{c}}$$

SE PUEDE CALCULAR M M = Zt CONOCIDA Zeyfc. DE LA PUNTA

## BROADBAND CURRENT PROBE BCP-611 10 KHZ-150 MHZ



$$M = \frac{Z_{t}}{2\pi f_{c}} = \frac{1\Omega}{2\pi \cdot 200.10^{3} H_{z}} = 0.8.10^{6} H$$

EN RESONANCIA

$$W_{c} = \frac{RL}{L} = \frac{50\Omega}{2\pi L} = \frac{200KHz}{2\pi .40.10^{6}H}$$

Verifica o.k.