Talla Umanal 14 1) Attenuador de 20 dB intercalado com un coasil de 75 ohni = 20 BW = co -> revitiva pera (B=0) 20B=30dB > 2 neper = 3,454 = 8  $T = \begin{pmatrix} \cosh x & \cosh x & \epsilon_0 \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 164,81 & \epsilon_0 \end{pmatrix} = \begin{pmatrix} 0,21 & 15,83 \end{pmatrix}$   $= \begin{pmatrix} \cosh x & \cosh x & \epsilon_0 \end{pmatrix} = \begin{pmatrix} 0,21 & 15,83 \end{pmatrix}$   $= \begin{pmatrix} 211-\xi_{21} & \xi_{12}-\xi_{21} \\ 0 & M \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{22}-\xi_{21} \\ 0 & M \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{22} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{22} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{22} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{22} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{22} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{22} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{22} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{22} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{22} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{22} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{22} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{22} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{22} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{22} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{22} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{22} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{22} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{22} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{22} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{21} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{21} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{21} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{21} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{21} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{21} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{21} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{21} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{21} & \xi_{21} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{21} & \xi_{21} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{21} & \xi_{21} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{21} & \xi_{21} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{21} & \xi_{21} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{21} & \xi_{21} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{21} & \xi_{21} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{21} & \xi_{21} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{21} & \xi_{21} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{21} & \xi_{21} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{21} & \xi_{21} \end{pmatrix} = \begin{pmatrix} 15,83 & 1184,81 \\ 0 & \xi_{21} & \xi_{21} & \xi_{2$ necesario por Imp. imogra iquale 312 = 1 = 4,7652 711 = 822 Z11 = D = 75,38 Ze = = + (1 + 21/2. E2) = 75, 23 V RAMBERTE Vouleco la alemación en LTS fice

ART = 5,72dB = 0,6585 2\ Est=75082 EI2 = 50 R lenhy JEI, EIZ / 41, 306 Cosh & Jet colly 1 = 0,0115 1 I unha Z11 = A = 130, 4352 821 = 1/c = 87, 1292 Z22 = D = 86,957 12 Z12 = AD-BC = B7,129.52 V3 52 43,506 st V2 -0 V3 00 Zer V1 587,129 77, 3502 Ec = 43,306 st. (1 + 1 / 37,129) = 75,07 V V=0 = 87,129 // (7.5 12 + 43,30652) = 50,17 V 20b = 20 log (43,306x+(87,129/150)) + 10log (50) = 5,71 d8 87,49/150) 3,71 vece e) No le puede voi que el exople de impedancion bral implecela una alemación d) Siquilado el procedimiento anterior, a que to 80 de de abenuación, obtenemos que la 7 en de Caración el 0,01252 (vocalizable) Se ofta for I bloquer que alemen 20 ol B Con Es=75r y una lillima que aleme 20 dB y adaple

