







288' | d=dmex = Zo.S = 50(3.5) = 175 12 -7 Zo' = Zo S = 93,5 12

2 40200 i d = dmin = dmcx + A = 0,292 A

268' | dodmin - 20 = 50 ~ 14,3 1 → 20 = 20 = 26,7-12

1 30 = 30 cm

Le committee : d= 0,062 = 0,062(30) = 1,26cm \ 24 hetter vruntique Lession reme : d= 0,292 \lambda = 0,292 (30) = 8,76cm \ l= 4,5cm

Örnel : h=0,177cm, E1=2,2, 20=50R, milrosent hat quistige ve 256Hz 90° For baydin

to=son w/h>2 alaling

B= 377.11 = 377.17 = 7,985/1 220/EC 2.50(2,2'

 $\frac{\omega}{h} = \frac{2}{\pi} \left[\frac{B-1-\ln(2B-1)+\xi_{1}-1}{2\xi_{1}} \left(\frac{\ln(B-1)+0.39}{\xi_{1}} - \frac{0.61}{\xi_{1}} \right) \right] \frac{\omega}{h} > 2$

 $\frac{\omega}{h} = \frac{2}{\pi} \left[\frac{7,985 - 1 - 2,706 + 0,2727 (2,0565)}{\pi} \right] = \frac{2}{\pi} \left[\frac{4,279 + 0,560}{1} \right] = \frac{2}{\pi} \left[\frac{4,279 + 0,560}{1} \right] = \frac{2}{\pi} \left[\frac{4,279 + 0,560}{1} \right] = \frac{2}{\pi} \left[\frac{4}{1} + \frac{2}{1} + \frac{2}{1}$

 $\frac{\omega}{h} = \frac{3.678}{3.14} = \frac{3.081}{h} = \frac{\omega}{1000} = \frac{3.081}{1000} = \frac$

 $\underbrace{\{\epsilon_{e} = \frac{1}{2} \left[(\epsilon_{e+1}) + (\epsilon_{e+1}) - 1 - \frac{1}{2} \left[\frac{3}{2} + \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) \right] = 1.87}_{2}$

Be=# f=1 1= 10 = 30/2.5 = 8,775cm

10° kayde -7 P= 2 = 2,2 cm