18373038 钱思远 3-13

BJ-32 型 a=72.14mm b=34.04mm

 ω $k_c = \sqrt{\frac{m}{4} \lambda_0^2 + (\frac{n\lambda}{4})^2}$

 $\lambda_c = \frac{27}{k_c} = \frac{2}{\left(\frac{m}{a}\right)^2 \left(\frac{1}{b}\right)^2}$

(2c) 1710 = 14.428 cm. (2c) H20 = 7.214 cm

> 6 cm (Ac) Eo1 = 6.808 cm (2c) En. HI = 6.157 cm

② 相邻波节点, 距离为率10.9cm 次号版t 2g= 40 g cm 20.18 cm

 $\lambda g = \frac{\lambda_0}{G} = \frac{\lambda_0}{\sqrt{|\lambda_0|^2}}$



得 入。≈ 12.02cm

③ 还能通品模式.

(2c) 410 = 14.428cm

G= 11-(20)2.

Up = ++ 1/2 = 4.17×108 m/s

Vg = VG = 2.16 ×108 m/s

29 = 20 = 13 go cm

3-14

② α增大为2倍

商: BJ-100 A=22.86mm b=10.16mm

a = √1- (2°)2 ×

 $\lambda g = \frac{\lambda_0}{G} = 3.976 \, \text{cm}.$

λ= 2λc = 9.144cm

B'= 1.98 rad/cm

η'yEI ≈ 398 s.

3=20<26 = 100 1 (m) 3+(f) 3

 $\lambda g' = \frac{\lambda_0}{1 + (\frac{\lambda_0}{2})^2} = 3.176 \text{ cm}.$

(一点)2+(名)2人(三)3

能通过 H10. H20. H30.

配通过 His. Hor. Hir. En

10H ... H ... HOI.

 $\lambda g'' = \frac{\lambda_0}{\sqrt{1-(2\omega)^2}} = 2.224$ cm $\beta'' = \frac{2\lambda}{\lambda_0''} = 2.9260$

扫描全能王 创建

目 6 增大,以上量效

17E10 = 419 12.

(4) = 2cm ふごふた

 $\beta = \frac{2\pi}{\sqrt{9}} = 1.58 \text{ rad/cm}$.

λc = 2a = 45.72 mm = 4.572 cm

 $\eta_{1E10} = \frac{\eta}{G} = \frac{120 \,\text{T}}{\sqrt{1 - \left(\frac{\lambda}{2}\right)^2}} = 500 \,\Omega$

$$\lambda_{c} = \sqrt{\frac{2}{(\frac{m}{0})^{2} + (\frac{n}{b})^{2}}} = \sqrt{\frac{2}{\frac{m^{2}}{4b^{2}} + \frac{n^{2}}{b^{2}}}}$$

$$\langle \lambda_c \rangle_{\mu_{\psi_o}} = b$$
.

20 < (Ac) Hyo < (Ac) Home.

$$\frac{m^2}{4b^2} + \frac{n^2}{b^2} \ll \frac{b}{b}$$

3-16

1 : 0 M=1. N=0.

Ac = 2a = 1.4224 cm.

$$f_c = \frac{c}{\lambda_c}$$
 $\lambda_o = \frac{c}{f_o} = 1$ cm

 $\Delta g = \frac{\lambda_0}{G} = 1.406 \, \text{cm}.$

$$\beta = \frac{27}{20}$$

 $\phi = \beta l = 44.67 \, \text{rad}.$

@ Er=4. Mr=1

$$\lambda_0' = \frac{\lambda_0'}{\sqrt{1-\left(\frac{\lambda_0'}{2}\right)^2}} = 0.534 \text{ cm}.$$

$$\beta' = \frac{2\lambda}{\lambda \xi} =$$

$$\phi' = \beta' l = 117. \ \text{b rad}.$$

 $e^{\int cm = \lambda_0} < \lambda_c = \frac{1}{\sqrt{(\frac{m}{\alpha})^2 + (\frac{n}{\alpha})^2}}$

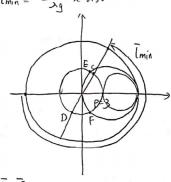
还能通 Hol. Hzo、Hil. En. Hzl、Ezl.

3-17.

3.2(m = 20 < (xc) HID

i. Ac = 2a = 4.572 cm.

$$\overline{l_{min}} = \frac{l_{min}}{2q} \approx 0.30$$



TD = 0.380-j0.280. [D=0.050

预: 了= -j1.15.

即教到:d= d. 2g a 9.6mm