

Single Slit Case Eixs) & eitheix F (gixs) where g(x) F(g(x)) = \int_{\frac{a}{2}}^{\frac{a}{2}} e^{-jkx\cdot \chi} dx = -\frac{1}{jkx} e^{-jkx\chi} \Big|_{\frac{a}{2}}^{\frac{a}{2}} = $\sin c(\frac{kx \cdot a}{x^2})$ => $E(x_s) \propto \frac{e^{ikd}e^{jk\frac{x}{d}}}{d}$ sinc $(\frac{kx_sa}{2d})$ $|E|^2 = \sqrt{\sin^2(\frac{kx_sa}{2d})}$ * Angular Spectrum PJCK:F-wt) * Kx,max = K = 2t / K= (k.sino, k.coso) F= (x,0) limit the resolution

 $e^{jk(siv\theta)X} = e^{jkx \cdot X}$ $= e^{jk(siv\theta)X} = e^{jkx \cdot X}$ $= e^{jk(siv\theta)X} = e^{jkx \cdot X} dx$ $= e^{jk(siv\theta)X} = e^{jkx \cdot X} dx$

