



SING (J) = 37 ( 567 + 2)] cos (ATT f) e samt - v TA  $\overline{\chi}(f) = e^{j3\pi f} \sin(f) + \frac{j2}{2} \cos(4\pi f)e^{j3\pi f} - \frac{j}{2} \left[ \sin(f)e^{j3\pi f} \left( j6\pi f + 2 \right) \right]$  $\frac{2}{\chi(J)} = \frac{3\pi f}{\sin(f)} + \frac{3}{\pi f} \cos(4\pi f) = \frac{3\pi f}{\pi f} \sin(f) = \frac{3\pi f}{\pi f} (36\pi f + 2)$  $\widetilde{\chi}(F) = \left[\cos(3\pi F) - j \sin(3\pi F)\right] \sin(F) + \frac{j}{\pi} \cos(4\pi F) \left(\cos(3\pi F) - j \sin(5\pi F)\right)$ + 6 Sinc(f)(cos(311f) - jsen(311f)) - j 2 sinc(f)(cos(311f) - jsen(311f))  $\widetilde{\chi}(f) = \operatorname{Sin}(f)(0)(3\pi f) - j \operatorname{Sin}(f) \operatorname{Sin}(3\pi f) + j2 \cos(4\pi f)(0)(3\pi f)$ + 2  $\cos(4\pi f) \operatorname{Sen}(3\pi f) + 6 \sin((f)\cos(3\pi f) - i6\sin((f)\sin(f))$  $-\frac{1}{2}\frac{2}{\pi f}\sin(f)\cos(3\pi f)-\frac{2}{\pi f}\sin(f)\sin(3\pi f)$  $\widehat{\chi}(f) = \frac{\sin(f)\cos(3\pi f)}{2} - \frac{3\pi f}{2}\sin(2f) + \frac{1}{2}\cos(4\pi g)\cos(3\pi f)$ + 6 sin((f)cos(AMF)+6 sin((f)cos(3MF)-j18MF sin(2(f) 1 2 sin((f) cos(317) - 6 sinc(f)  $\sqrt{\chi}(f) = \cos(3\pi f) \left[ \sin((f) \left( \frac{13}{2} - j\frac{2}{\pi f} \right) + j\frac{2}{\pi f} \cos(4\pi f) \right] - \sin(^2(f) \left( 6 + j\frac{39}{2} \pi f \right) \right]$ + 65 inc(f) cos(4mf)

χ(٤) - $\frac{1}{2\pi F} = \frac{1}{2\pi F} \left(\frac{3}{2}, \frac{1}{2}\right) + \frac{1}{2\pi F} \left(\frac{3}{2}, \frac{1$  $\frac{1}{16\pi^{2}F^{2}} = \frac{32\pi F(\frac{3}{2}-2)}{16\pi F}$  $= \frac{(j + j) + (j + j)}{(16\pi F)^2 + (16\pi F)^2} = \frac{(j + j)}{(16\pi F)^2} = \frac{(j + j)}{(16\pi$  $\left(\begin{array}{c|c}1\\(4\pi f)^{2}\end{array}\right)$   $\left(\begin{array}{c|c}1\\2\pi f\end{array}\right)$   $\left(\begin{array}{c|c}4\pi f\\(4\pi f)^{2}\end{array}\right)$   $\left(\begin{array}{c|c}3\pi f\\4\pi f\end{array}\right)$  $-e^{-\frac{1}{3}\pi f} \left[ -\frac{1}{e} \frac{3\pi f}{4\pi f} - \frac{1}{2} \frac{3\pi f}{4\pi f} \right] = -e^{-\frac{1}{3}\pi f} \left[ \frac{1}{8\pi^2 f^2} \left( \frac{1}{2} \frac{e^{3\pi f}}{2} \right) - \frac{1}{2\pi f} \frac{1}{4\pi f} \right] = -e^{-\frac{1}{3}\pi f} \left[ \frac{1}{8\pi^2 f^2} \left( \frac{1}{2} \frac{e^{3\pi f}}{2} \right) - \frac{1}{2\pi f} \frac{1}{4\pi f} \right] = -e^{-\frac{1}{3}\pi f} \left[ \frac{1}{8\pi^2 f^2} \left( \frac{1}{2} \frac{e^{3\pi f}}{2} \right) - \frac{1}{2\pi f} \frac{1}{4\pi f} \right] = -e^{-\frac{1}{3}\pi f} \left[ \frac{1}{8\pi^2 f^2} \left( \frac{1}{2} \frac{e^{3\pi f}}{2} \right) - \frac{1}{2\pi f} \frac{1}{4\pi f} \right] = -e^{-\frac{1}{3}\pi f} \left[ \frac{1}{8\pi^2 f^2} \left( \frac{1}{2} \frac{e^{3\pi f}}{2} \right) - \frac{1}{2\pi f} \frac{1}{4\pi f} \right] = -e^{-\frac{1}{3}\pi f} \left[ \frac{1}{8\pi^2 f^2} \left( \frac{1}{2} \frac{e^{3\pi f}}{2} \right) - \frac{1}{2\pi f} \frac{1}{4\pi f} \right] = -e^{-\frac{1}{3}\pi f} \left[ \frac{1}{8\pi^2 f^2} \left( \frac{1}{2} \frac{e^{3\pi f}}{2} \right) - \frac{1}{2\pi f} \frac{1}{4\pi f} \right] = -e^{-\frac{1}{3}\pi f} \left[ \frac{1}{8\pi^2 f^2} \left( \frac{1}{2} \frac{e^{3\pi f}}{2} \right) - \frac{1}{2\pi f} \frac{1}{4\pi f} \right] = -e^{-\frac{1}{3}\pi f} \left[ \frac{1}{8\pi^2 f^2} \left( \frac{1}{2} \frac{e^{3\pi f}}{2} \right) - \frac{1}{2\pi f} \frac{1}{4\pi f} \right] = -e^{-\frac{1}{3}\pi f} \left[ \frac{1}{8\pi^2 f^2} \left( \frac{1}{2} \frac{e^{3\pi f}}{2} \right) - \frac{1}{2\pi f} \frac{1}{4\pi f} \right] = -e^{-\frac{1}{3}\pi f} \left[ \frac{1}{8\pi^2 f^2} \left( \frac{1}{2} \frac{e^{3\pi f}}{2} \right) - \frac{1}{2\pi f} \frac{1}{4\pi f} \right] = -e^{-\frac{1}{3}\pi f} \left[ \frac{1}{8\pi f} \left( \frac{1}{4\pi f} \frac{e^{3\pi f}}{2} \right) - \frac{1}{2\pi f} \frac{1}{4\pi f} \right] = -e^{-\frac{1}{3}\pi f} \left[ \frac{1}{8\pi f} \left( \frac{1}{4\pi f} \frac{e^{3\pi f}}{2} \right) - \frac{1}{2\pi f} \frac{1}{4\pi f} \frac{e^{3\pi f}}{2} \right] = -e^{-\frac{1}{3}\pi f} \left[ \frac{1}{4\pi f} \frac{e^{3\pi f}}{2} \right] = -e^{-\frac{1}{3}\pi f} \left[ \frac{1}{4\pi f} \frac{e^{3\pi f}}{2} \right] = -e^{-\frac{1}{3}\pi f} \left[ \frac{1}{4\pi f} \frac{e^{3\pi f}}{2} \right] = -e^{-\frac{1}{3}\pi f} \left[ \frac{1}{4\pi f} \frac{e^{3\pi f}}{2} \right] = -e^{-\frac{1}{3}\pi f} \left[ \frac{1}{4\pi f} \frac{e^{3\pi f}}{2} \right] = -e^{-\frac{1}{3}\pi f} \left[ \frac{1}{4\pi f} \frac{e^{3\pi f}}{2} \right] = -e^{-\frac{1}{3}\pi f} \left[ \frac{1}{4\pi f} \frac{e^{3\pi f}}{2} \right] = -e^{-\frac{1}{3}\pi f} \left[ \frac{e^{3\pi f}}{2$  $\frac{-i}{2\pi f} = -\frac{i}{2\pi f} \frac{3\pi f}{f} \left[ \frac{1}{8\pi^2 f^2} \cos(4\pi f) - \frac{i}{2\pi f} (\cos(4\pi f) - i\sin(4\pi f)) \right]$  $= -\underbrace{e^{i3\pi F}}_{cos}\underbrace{cos(4\pi F)}_{2\pi F} + \underbrace{i^{3\pi F}}_{2\pi F}\underbrace{sen(4\pi F)}_{2\pi F}$ 

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