

\_\_\_\_\_ . . . . .

100 ( )

5 , 125 ,

20 - 22 /100 .

12,5%.

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R:

1.

$$R_{=Al-Cu} = \frac{R_{=Al} \cdot R_{=Cu}}{R_{=Al} + R_{=Cu}} = \frac{\dots Al \cdot \dots Cu}{\dots Cu \cdot f \cdot r_{Al}^2 + \dots Al \cdot f \cdot (2 \cdot r_{Cu} + \Delta_{Cu}) \cdot \Delta_{Cu}} \approx R_{=Al} \cdot \frac{1}{1 + 3 \cdot \frac{\Delta_{Cu}}{r_{Al}}}, (1)$$

$r_{Al} = 0,028 \cdot 10^{-6}$  ,  $r_{Cu} = 0,01743 \cdot 10^{-6}$  .

1,

( opt)

( opt)

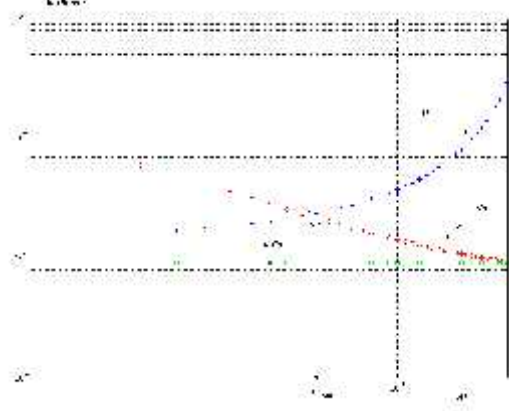
$$C_u = \text{opt} = 60$$

2 %

50 %

22 %

$$r = 8.69 \sqrt{RC}, \quad / \quad (2)$$



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0,511

0,511

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$$R_f = \text{Real} \left( \frac{\text{sqrt}(j \cdot \tilde{S} \cdot \sim_o \cdot \sim)}{2 \cdot \pi \cdot r \cdot \chi} \cdot \frac{I_0(\text{sqrt}(j) \cdot k \cdot r)}{I_1(\text{sqrt}(j) \cdot k \cdot r)} \right), \quad (3)$$

$k = \mu_o \cdot \mu \cdot -$

;  $r =$

,  $I_0(j \cdot$

$k \cdot r) I_1(j \cdot k \cdot r) -$

(2)

(1)

100

200 ( .2).

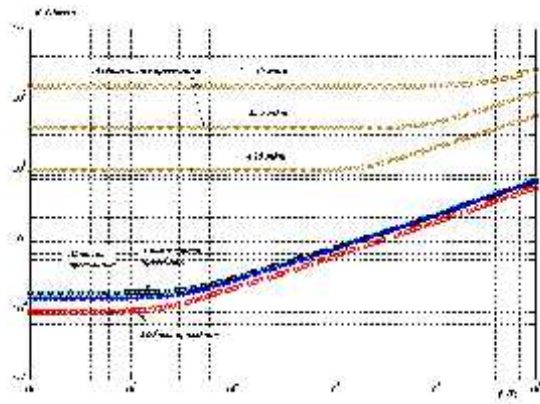
24 %

125

2%.

1,24=1,11 :

$$r = r_{\text{...}} + r_{\text{...}} = 8,69 \left( \frac{R}{2} \sqrt{C/L} + \frac{\tilde{S} C_{tgU}}{2} \sqrt{L/C} \right) \quad (4)$$



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0,511 (24 AWG)

RJ-45.

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