Turng thich trường chin his EE 4232 Quary Huy - 2018 1529 STT: 17 doing has 02 - K63 TRƯỜNG ĐẠI HỌC BÁCH KHOA HẢ NỘI THÉ SINH VIỀN HANOLUNIVERSITY OF SCIENCE AND TECHNOLOGY Student ID card WOUYĒM QUANG HUY Kỹ thuật Điều khiến - Tự động hóa (EE2) MSSV / ID No Giá trị đến / Valid Thru 20181529 30/07/2023 ophien Wong xuyen am talk) (CROSS Nhien xuyen am la nhien gang Khou niem: les sur ghep non nang hương trẻ trace PCB Sang trace PCB khai ngay ca' khi chung No ray ra do sur turding toic (ghép otien dung) truiding (ghip tus otien cam lu turong tow thirty tao la dien trong rung cai giua trace 0 nhiem vu tao mhan canh (victim) doing leen tren otroma lan und dong stien trong stulong thems do oties duoi hinh dien theo se che dona olog victim dubing phat simb khi hai teace Mhien tuyen chay cach mhan trong way mot los heac tren of inh was trace plus trong Con how trave chang cung hien mot 6 rien oto Hall

Nguyên aving Huy - 2018/1529 - STT 17 hon trace khai, no co the and hurong sten tim hien sti qua trace kisa o stery trace co brien sto cao hon se strok gor la "tai nhim yo trace which se stroke gor la "tai nhim Long turong hop như vaig trơn miều trong trace victim se lest đơn chươc turời trở khang đặc trường cuố trace toù nhan thay vi dan trờn hiện cuố chính nó khủ đười ray xay sa , no co righia la nhieu xuyen am da phoit xa vao hi thong. - Co chi' gay sa nhien xuyen am trong he thong:
- Moi tim hien dien den co to trusing dien to EM khai shan. Bot wir khi new cai turding new chong len onhow, dung toe sa ghep noi can Wing, dier dung hooc dan dier dan den EMI - lai dong dien gay en 3 al dati gan va xa un' driding day victim to sa nhiet nearend ua farend I near = ICm + ILm vai I fax = ICm-Itm Nhien xuyen am neal-end luon duong vi donoj do Con voi Im luôn la so le voi chay vac nut Deary PCB, nhien xugen am falend noi drung la avi vi dong dien do Lm lan hom dong otien do Cm. Nhier xuyen am phu thuốc rao thiết lei dan cuối cuối othering day victim

hải Hến

Nguyen Owang Huy - 20181529 - STT 17 Phan loan : Cai lon nhien xuyen am - Mhiet xuyen and dien dung shaft simb nhau sinh la luien ung dien dung - Nhiênse xuyên am dien com: No' tre la song song ten tur turong genoi cai trace drang song song tren an cam ung co 2 loui forward and reat back moved. Forward la orbite obute quan east that is down a nhat his rain phat (Driver) trea driving drive oben klusen, treng Khi nhiều xuyên am hack mard loi nhiều dribe quan sát thấy 3 dati gin nhất tren dubing victim. Nguyen mhan gay la mhien xuyen and. - Cohep tien dung ea cam who chien dung la do dren dung my svorts cea ghep cam uni may la do luser mong tui cano lain nhau - Sur Mhae orhan es tác do lan alu truyên: 6 the trains dribre learning each doi sains do dai trace rea doi sail do ché lan chuyén - PCB vias . Via PCB co' su' chuyes tries girus cai lop' cua' stub (phair dan otres thus) tao ia sur phan xa i do oto' co' hien trebing singing the ear whiteir xuyer am

HẢI TIỂN

Nguyin Quang Huy - 20181529 - STT 17 Phurdney phoys choriej nhiveir :

- Tas Waring cach to: da gourd 2 day dais

tren curron 1 lop PCB

- brinds caic daiy dais tren cai lep lien kã violeg

goi eet orhan Sui dung " ground plane"

Khou that dusing the low " ground" - Su' dung tim hieù vi sou - 6° lûp cai tim hieù khong dong læ - Su' dung cap xoron don trong truyen dant in hoù UD ué nhien xuyen am. Whi thiết kế PCB.

liait 3 W w 2W W

3-5 W. race width Dap ung napures toic 3 u co this gians 7% nhiven xuyen am gius cal dubing tim hiven ea neil trong trubing lip ap dung dribit 100 co the grain otes 98 % nhiver.

HẢI TIẾN

Date No.
Nguyêr Quang Huy - 20181529 - SET 17
(aû 1: a)
Hints 1 lenn vice à pair sé' cao: u=10 mils
$h = 64$ mils, $\epsilon_{\Lambda} = 4$, θ , $\ell = 60$ cm.
(a)
200
Thong so duoting clai tuyen:
$\frac{\xi_{1}}{2} = \frac{\xi_{1} + 1}{2} + \frac{\xi_{1} - 1}{2} \cdot \sqrt{1 + 10h/w}$ $= \frac{4.7 + 1}{2} + \frac{4.7 - 1}{2} \cdot \sqrt{1 + 10.64}$ $= \frac{2.88}{2}$
$\mathcal{E}_{\lambda} = \frac{1}{2} + \frac{1}{2} = \frac{1}{2}$
V1+10h/w
=4,7+1 $+4,7-1$ 1 $=288$
2 V1+10.64
10
$V = \frac{U_0}{I} = 176,7.10^6$ $I = \frac{L}{I} = 3,39.10^{-9}$
$V \in \mathcal{M}(S)$
2 12017 CW 1202 1602 P (W)
$\frac{2c}{\sqrt{c'}} = \frac{120\pi}{h} + 1,393 + 0,667 \ln \left(\frac{w}{h} + 1,444\right) = 100$
1197
1 = 2c = 3c VEL 0678 (4H/m)
1/2 = 0,0 10 (µ1/m)
C= L 0,678.10 426.50
$C = \frac{L}{Z_c^2} = \frac{0.1678.10}{(1.19, 25)^2} = \frac{476.59}{(1.19, 25)^2} = \frac{1}{2}$
$=4176 \times 10^{-11} (F/m)$

HẢI TIẾN