

«H₁§1³4ã©Ê-Ôœµµ { @v¥²¶·±¹ªº»tœ@Ó°ÝÃD;CœÖ¶q^{ao}«H₁»P^{oa}·ê@Æ³²v·ÏDDR·t²ªºê§@ÁÛ±o«D±`§xÃø;A^{ao}±ªªp±N·|«ùÃð¥X²{;C

ª»¥í'ú, Õ©Ê

³Ï«á;ý«Û«n^{ao}œ@Ó°ÝÃD'N-O¥í'ú, Õ©Ê;Cœµµ { @v;|b±¹ªº»HœW©Ò;³ao-
·îœ§«á;A·t²ªºœ³q±`œw, g·S;³œÓœªª^{aoa}Á¶;¥i¥Hµ²;X¥í'ú, Õ©ÊœF;AµM;Ó¥í'ú, Õ©Ê«o-O²£«~ÁçÃÒ»P§Ö³œW¥œª^a
{;C·²£«~|b¥Í²£Lµ {œœ³©ÒÁÛ§ó@Ê;A¥²¶·;³œ@Ó§Ö³t;Ó¥í'³/4a^{ao}œèªk·ÓÁçÃÖ³o·ÇÁÛ§ó-O§_§iÁÛœF³}p^{ao}ª©|¥
pœœ¥[œJ¥í'ú, Õ©Ê;C±¹ªº«ez^{ao}ÝÃD;A§K±µÁY;|ÁP;èœÀªR»ö±'ú§P³N«K-à;³·}ln^{ao}, Ñ·Mœèªk;C

§K±µÁY;|±'Î;bDDRÁçÃÒªºÁ³¥Í

§K±µÁY;|ÁP;èœÀªR»ö±'ú, Õ±'Î³/4A;X¥Í©óDDR·t²ªºœ£;ù;A¥Dn^{ao2}z¥Ñ¥]-A;ù;î±;¿nœp;B³s±µ®É^{ao}t, ü§C;Bœ£³;
-àœO;C-°»|©ú³oÃp±'ú§P³N^{ao-}àœO»P|hœ, ©Ê;A·í°³E;p|w±¶Û-î§P^{ao}Soft Touchµ¥§K±µÁY;|'ú, Õ±'Î®É;A

ÏÏ-Ôœ@Ó·Ï¥Í4'ª;@y;B184±µ, }DIMM^{ao}DDR·t²ªºœ§G§½²d·Ò;C³oÓ·t²ªºœQ¥Íî©ó²×°Ýœ§¶;ª^{ao}§K±µÁY;|'ú, Õ±
^{ao}œWœè, ð¥Ñ;A;Ó1x«H₁(î§)©M±±'î)«h-O;|b¹q, ðªO©³³;¥HÃp;ü^{ao}œè;¶Ç°e;C·C®ÚSoft Touch'ú, Õ±'Î©Ò;ù^{ao}
±;¿n;CPCB©³³;¥}§t²ÓSoft Touch;ù;î±;¿n;A¥í'ú, Õ©Ò;³ao1x DDR«H₁;C-°ÁA, Ñ§K±µÁY;|'ú, Õ±'Î^{ao-}àœO;A¥

§K±µÁY;|±'Î¼W¥[ªºPCB±;¿nœp©ó10%

¼W¥[§K±µÁY;|'ú, Õ±'Îªº;ù;î±;¿n;A·Ï°O³/4ÐÁé·t²ªºœ»Ýª^{aoa}Á¶;|bX¶|b|h¥X0.39^T;C'«¥y, Ü»|;At, ü²×°Ý¹qª^{ao}
Ê³/4IC©Ò²£¥Íªºq, ðªOtrace·it, ü²×°Ý¹qª³ÏkÃª^{ao}-Û¹ªjœp;A¥i¥Hµ²{·Ï¥Í§K±µÁY'ú, Õ±'Î©Ò¼W¥[ªºª¶

§K±µÁY;|'ú, Õ±'Î¥œ@ÓÊ±o'£¥XªºÀuÁ;A'N-Oflow-through routing-àœO;CÁP;èœÀªR»ö±'ú, Õ±'Îªº;ù;î±;¿n;
'N-O»|bDDR·t²ªºœ;Aœ£»Ýn·Ï¥ÍÃB¥~ªº/4h·Óµ²;XÁP;èœÀªR»ö¥í'ú, Õ©Ê;C³o·i©ó;|b4¼h¹q, ðªOœW¹ê§@ªº·t²

¹q®ðªº¼vÁT

|bœWœªœœ;AÃB¥~ªº¥í'ú, Õ©Ê°§CœF·t²ªºœ«H₁§1³4ã©Ê;C|bÁv;Á¥í'ú, Õ©Ê»PÁYœpÃªªª^{ao}«n©Ê®É;A³oÓ°Ý
;C·ª«-ªº4¼hDDR·t²ªºœbPCBªº¥~¼h·Ï¥Í0.005^Tªºq, ðªOtrace¼e«×;C³o·Ç¼h§;³}p|·50£[;A¹³oÃp-L³/4Éœù¹q, ðªO
PªºÃB¥~t, ü;A½Ð;Ò¼{³s±µ'ú, Õ±'Î»P¥¼³s±µ'ú, Õ±'Îªº;ù;î±;¿n;A¥í'ú, Õ©Ê°§CœF·t²ªºœ«H₁§1³4ã©Ê;C|bÁv;Á¥í'ú, Õ©Ê»PÁYœpÃªªª^{ao}«n©Ê®É;A³oÓ°Ý

ª»CASE 1;G·í³s±µ'ú, Õ±'Î®É

¥í'ú, Õ©Ê©Ò³y;ªºÃB¥~¹q, ðªOtrace = 0.390"

¹q, ðªOtraceªº±H¥Í¹q®e=(0.390") x (3pF/inch) = 1.17pF

ÃB¥~ªº'ú, Õ±'Î¹q®e = 0.7pF (ªµù;G§t²k¹Ô)

¥í'ú, Õ©Ê©Ò³y;ªºÃB¥~Á¹q®e = 1.17pF + 0.7pF = 1.87pF

