



PRODUCT NAME

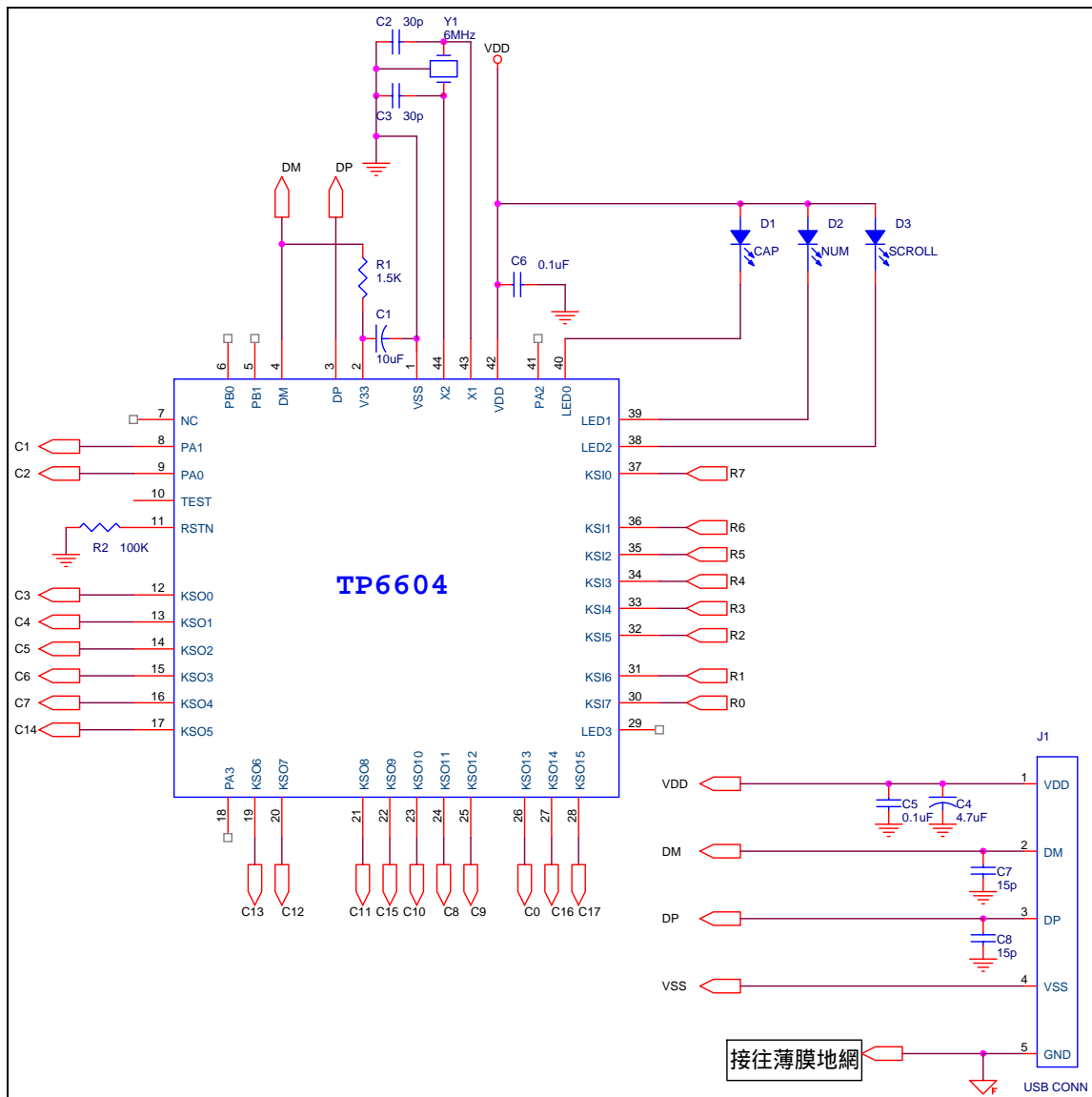
TP6604

TITLE

U+P Keyboard for EMI Test report

APPLICATION NOTE

一. Application Circuit

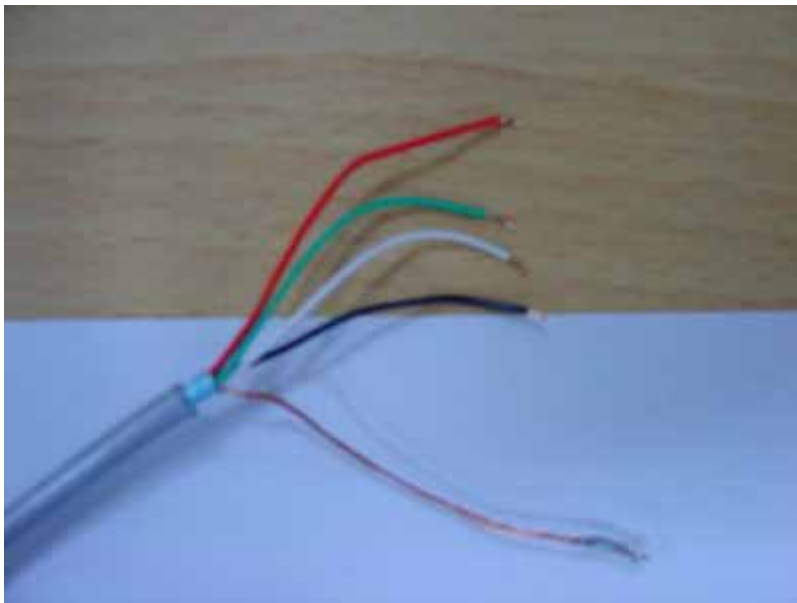


二. BOM 表

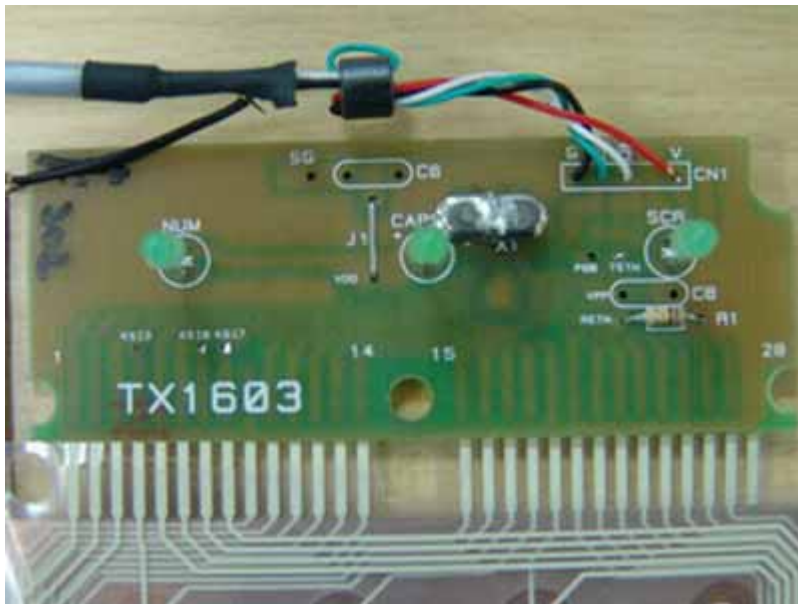
| 編號 | 元件數量 | 元件編號 | 元件數值 | 尺寸 | 備註 |
|----|------|------------|------------|----------|---------------------------------|
| 1 | 1 | R1 | 1.5K | SMD 0603 | |
| 2 | 1 | R2 | 100K | DIP 1/4W | |
| 3 | 1 | C1 | 10uF | A Case | |
| 4 | 2 | C2, C3 | 30p | SMD 0603 | 靠近 Y1/CRYSTAL |
| 5 | 1 | C4 | 4.7uF | A Case | 靠近 J1/CONN |
| 6 | 2 | C5, C6 | 0.1uF | SMD 0603 | C5 和 C4 靠近 J1/CONN, C6 靠近 IC |
| 7 | 2 | C7, C8 | 15P | SMD 0603 | 靠近 J1/CONN |
| 8 | 3 | D1, D2, D3 | LED | DIP | |
| 9 | 1 | Y1 | CRYSTAL/6M | 6MHz | 靠近 IC, 外殼接地 |
| 10 | 1 | U1 | TP6604 | DICE | |

P.S "此測試結果僅針對與測試報告中相同的 PCB Layout, USB 線材與 Housing 等條件, 對於不同的設計條件須視實際需要做調整, 以符合 EMC 的規範."

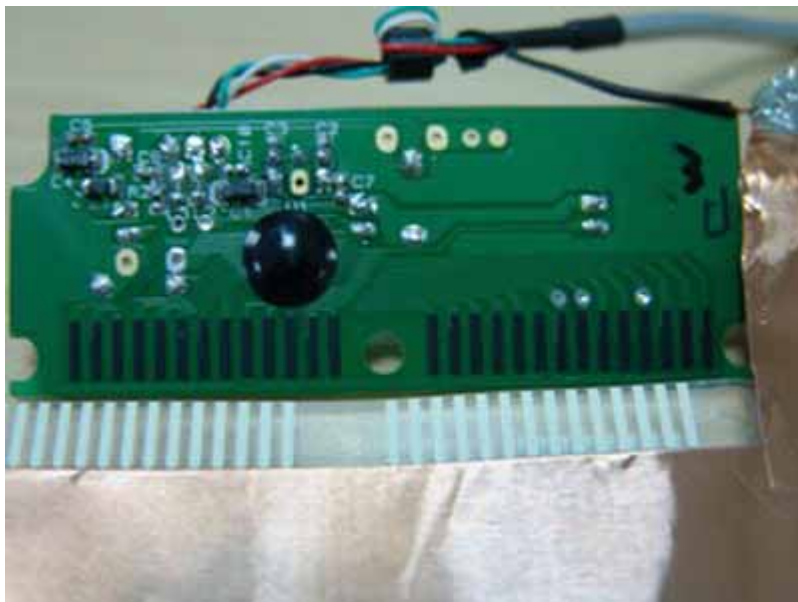
三.使用對策:線材帶 Core , Membrane 鋪銅
使用線材 KB1(無編織網有銅箔)



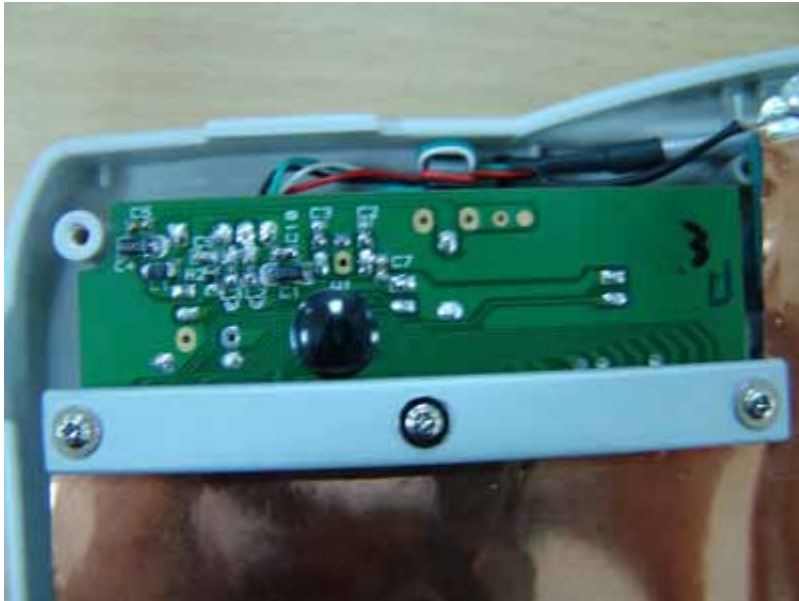
1.1 PCB 正面



1.2 PCB 背面



1.3 PCB+ Housing



1.4 Membrane 鋪銅

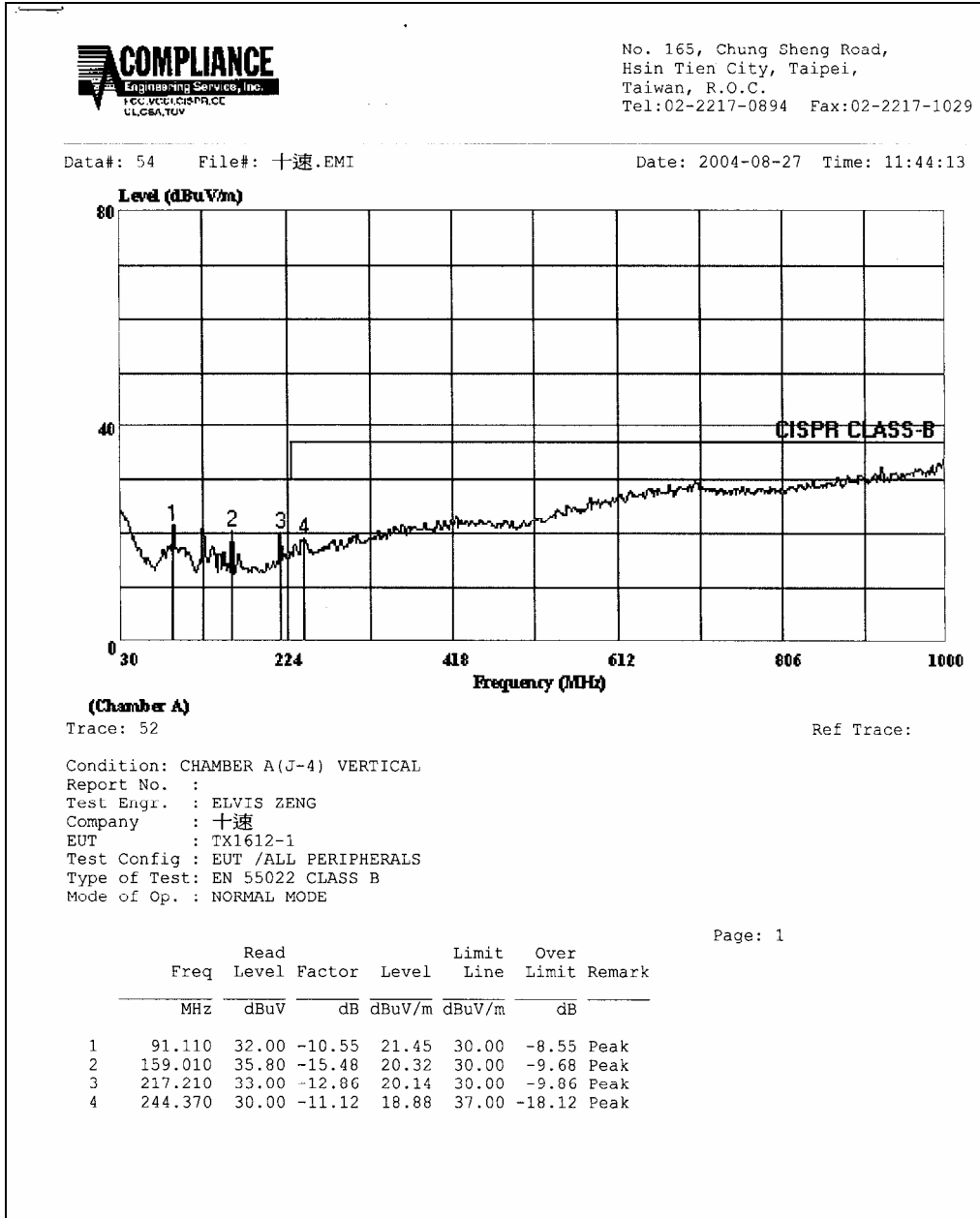


1.5 組合



1.6 EMI Test Report

Vertical



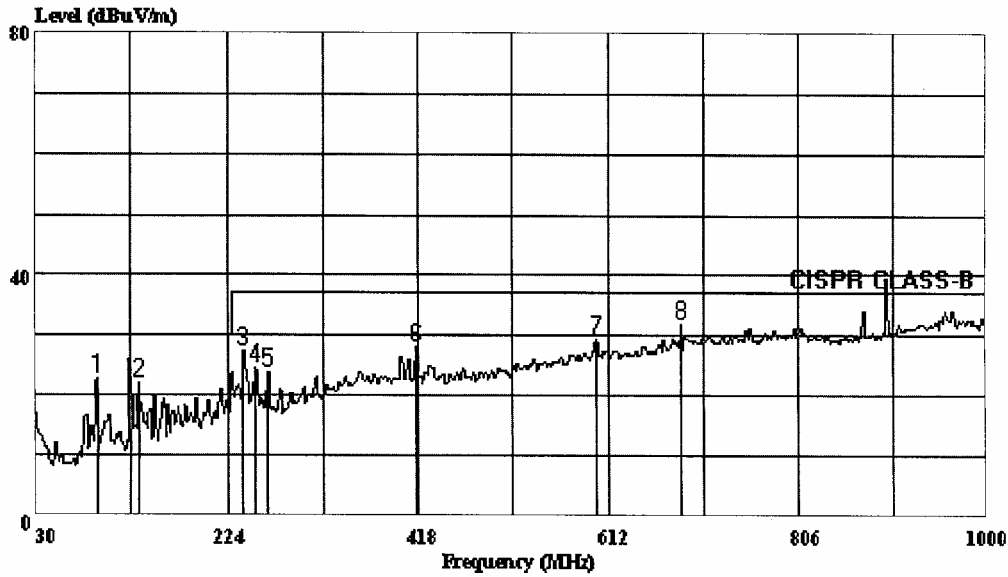
Horizontal



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Data#: 53 File#: 十速.EMI

Date: 2004-08-27 Time: 11:43:52



(Chamber A)

Trace: 51

Ref Trace:

Condition: CHAMBER A(J-4) HORIZONTAL
Report No. :
Test Engr. : ELVIS ZENG
Company : 十速
EUT : TX1612-1
Test Config : EUT /ALL PERIPHERALS
Type of Test: EN 55022 CLASS B
Mode of Op. : NORMAL MODE

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| | Read Freq | Read Level | Factor | Limit Level | Over Limit | Remark |
|---|-----------|------------|--------|-------------|------------|-------------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB |
| 1 | 92.080 | 38.40 | -15.70 | 22.70 | 30.00 | -7.30 Peak |
| 2 | 134.760 | 38.40 | -16.13 | 22.28 | 30.00 | -7.72 Peak |
| 3 | 240.490 | 36.00 | -8.57 | 27.43 | 37.00 | -9.57 Peak |
| 4 | 252.130 | 34.00 | -9.43 | 24.57 | 37.00 | -12.43 Peak |
| 5 | 263.770 | 34.00 | -10.10 | 23.90 | 37.00 | -13.10 Peak |
| 6 | 415.090 | 33.20 | -5.29 | 27.91 | 37.00 | -9.09 Peak |
| 7 | 599.390 | 31.40 | -1.82 | 29.58 | 37.00 | -7.42 Peak |
| 8 | 686.690 | 31.80 | -0.11 | 31.69 | 37.00 | -5.31 Peak |