以下是CX21986/CX31988 VS CS46L41/42功耗对比表，请查收。

对比Cirrus Logic，功耗方面我们两个方案都有很大的优势。

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| playback = 48 kHz, 24 bits |  | |  | |  |  |  |  |  |  | |  | |  |  |  |  |
| record = 48 kHz, 16 bits |  | |  | |  |  |  |  |  |  | |  | |  |  |  |  |
| **NON-LPM Test Case** | **CX31988 实测** | | | | | **CX21986 实测** | | | **Cirrus Logic CS46L41**  **规格书** | | | | | **Cirrus Logic CS46L42 实测** | | | **Comments** |
| **VBUS current [mA]** | **VBUS Voltage [V]** | | **USB Power [mW]** | | **VBUS current [mA]** | **VBUS Voltage [V]** | **USB Power [mW]** | **VBUS current [mA]** | | **VBUS Voltage [V]** | | **USB Power [mW]** | **VBUS current [mA]** | **VBUS Voltage [V]** | **USB Power [mW]** |
| Suspend w/ remote wake | 0.42 | 5.144 | | **2.2** | | 1.19 | 5.140 | 6.1 | 0.92 | | 5.000 | | 4.6 | 1.83 | 5.140 | 9.4 |  |
| Idle | 8.37 | 5.117 | | **42.8** | | 10.04 | 5.050 | 50.7 |  | | 5.000 | |  | 23.50 | 5.114 | 120.2 |  |
| Playback : Silence | 9.86 | 5.113 | | **50.4** | | 12.71 | 5.030 | 63.9 | 21.52 | | 5.000 | | 107.6 | 23.90 | 5.114 | 122.2 |  |
| Playback : 0.1 mW / 32 W = 56.5 mVrms | 11.50 | 5.129 | | **59.0** | | 14.84 | 5.020 | 74.5 | 22.80 | | 5.000 | | 114.0 | 25.10 | 5.113 | 128.3 |  |
| Playback : 1.0 mW / 32 W = 179 mVrms | 15.05 | 5.120 | | **77.1** | | 18.25 | 5.110 | 93.3 | NA | | 5.000 | | --- | 27.88 | 5.103 | 142.3 |  |
| Playback : 5.5 mW / 32 W =  420 mVrms | 22.30 | 5.120 | | **114.2** | | 24.56 | 4.950 | 121.6 | NA | | 5.000 | | - -- | 54.30 | 5.080 | 275.8 | This is the max signal level CS46L42 FW allowed |
| Playback : 30.6 mW / 32 W = 989 mVrms | 38.40 | 5.100 | | **195.8** | | 41.73 | 5.050 | 210.7 | NA | | 5.000 | | --- | --- | --- | --- | This is the max signal level Freeman-3 attains |
| Record : Silence | 8.82 | 5.116 | | **45.1** | | 13.41 | 5.100 | 68.4 | NA | | 5.000 | | --- | 24.28 | 5.072 | 123.1 | Enabled recording only, no signal injected |
| Record & Playback (silence) | 10.27 | 5.111 | | **52.5** | | 16.07 | 5.090 | 81.8 | 21.78 | | 5.000 | | 108.9 | 24.87 | 5.070 | 126.1 | Enabled playback & recording, no signal injected or played back |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |