|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **B4** | **B3** | **B2** | **B1** | **B0** | **Hex** | **Vout Calculated** | **Vout Practical** | **Accuracy** |
| 0 | 0 | 0 | 0 | 0 | 0x00 | 0.00 | 0.00 | 100.00% |
| 0 | 0 | 0 | 0 | 1 | 0x01 | 0.11 | 0.11 | 100.89% |
| 0 | 0 | 0 | 1 | 0 | 0x02 | 0.22 | 0.23 | 105.47% |
| 0 | 0 | 0 | 1 | 1 | 0x03 | 0.33 | 0.34 | 103.94% |
| 0 | 0 | 1 | 0 | 0 | 0x04 | 0.44 | 0.45 | 103.18% |
| 0 | 0 | 1 | 0 | 1 | 0x05 | 0.55 | 0.56 | 102.72% |
| 0 | 0 | 1 | 1 | 0 | 0x06 | 0.65 | 0.68 | 103.94% |
| 0 | 0 | 1 | 1 | 1 | 0x07 | 0.76 | 0.80 | 104.82% |
| 0 | 1 | 0 | 0 | 0 | 0x08 | 0.87 | 0.89 | 102.03% |
| 0 | 1 | 0 | 0 | 1 | 0x09 | 0.98 | 1.00 | 101.91% |
| 0 | 1 | 0 | 1 | 0 | 0x0A | 1.09 | 1.12 | 102.72% |
| 0 | 1 | 0 | 1 | 1 | 0x0B | 1.20 | 1.23 | 102.56% |
| 0 | 1 | 1 | 0 | 0 | 0x0C | 1.31 | 1.34 | 102.42% |
| 0 | 1 | 1 | 0 | 1 | 0x0D | 1.42 | 1.46 | 103.00% |
| 0 | 1 | 1 | 1 | 0 | 0x0E | 1.53 | 1.57 | 102.85% |
| 0 | 1 | 1 | 1 | 1 | 0x0F | 1.64 | 1.69 | 103.33% |
| 1 | 0 | 0 | 0 | 0 | 0x10 | 1.74 | 1.70 | 97.45% |
| 1 | 0 | 0 | 0 | 1 | 0x11 | 1.85 | 1.82 | 98.19% |
| 1 | 0 | 0 | 1 | 0 | 0x12 | 1.96 | 1.93 | 98.34% |
| 1 | 0 | 0 | 1 | 1 | 0x13 | 2.07 | 2.05 | 98.96% |
| 1 | 0 | 1 | 0 | 0 | 0x14 | 2.18 | 2.16 | 99.05% |
| 1 | 0 | 1 | 0 | 1 | 0x15 | 2.29 | 2.27 | 99.14% |
| 1 | 0 | 1 | 1 | 0 | 0x16 | 2.40 | 2.39 | 99.64% |
| 1 | 0 | 1 | 1 | 1 | 0x17 | 2.51 | 2.50 | 99.69% |
| 1 | 1 | 0 | 0 | 0 | 0x18 | 2.62 | 2.59 | 98.98% |
| 1 | 1 | 0 | 0 | 1 | 0x19 | 2.73 | 2.70 | 99.05% |
| 1 | 1 | 0 | 1 | 0 | 0x1A | 2.83 | 2.82 | 99.48% |
| 1 | 1 | 0 | 1 | 1 | 0x1B | 2.94 | 2.93 | 99.53% |
| 1 | 1 | 1 | 0 | 0 | 0x1C | 3.05 | 3.04 | 99.58% |
| 1 | 1 | 1 | 0 | 1 | 0x1D | 3.16 | 3.15 | 99.62% |
| 1 | 1 | 1 | 1 | 0 | 0x1E | 3.27 | 3.27 | 99.97% |
| 1 | 1 | 1 | 1 | 1 | 0x1F | 3.38 | 3.38 | 100.00% |

Vout =

Voltage Range = 0V – 3.38V

No. of BITs (n) = 5

Resolution = = = = = 0.1090V

Sampling Rate = 64