F164I

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Board ID | Doc Version | Date | Author | ASIC ID | Production |
| F164I | 0.1 | 23.03.2022 | L. Ghislotti | 164 | Italian |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **#** | **Test Description** | **Pass** | **Note** | |
| Visual | 1 | Visual inspection | Yes | See notes (if any) | |
| Bias | 2 | Analog | Yes | AVDD [V] | 1.796 |
| Yes | IVDD [mA] | 135.4 |
| Digital | Yes | DVDD [V] | 1.792 |
| Yes | IDVDD [mA] | 5 |
| Calibration | Yes | 3V3 [V] | 2.986 |
| Yes | I3V3 [mA] | 4 |
| Bias current | Yes | Ibias [mA] | 4.94 |
| Reference Voltages | Yes | VCMSH [V] | 1.198 |
| Yes | VCM [V] | 0.890 |
| Yes | RVCM [V] | 0.898 |
| Digital | 3 | Configuration test | Yes |  | |
| Wrong address test | Yes |  | |
| Temperature Sensor | Yes | ADC | 1028 |
| T [°C] | 24.975 |
| Analog | 4 | Input-output characteristic | Yes | # of non resp. ch | 0 |
| 5 | Noise ENC FWHM @ tp=6 | Yes | Ch 0 [keV] | 23.179 |
| Ch 7 [keV] | 116.767 |
| Ch 15 [keV] | 32.081 |
| Ch 16 [keV] | 25.876 |
| Ch 23 [keV] | 123.207 |
| Ch 31 [keV] | 23.178 |
| 6 | Threshold dispersion @ tp=6 | Yes | Before FT [DAC] | 5.316 |
| After FT [DAC] | 2.940 |
| 7 | Pedestal dispersion @ tp=6 | Yes | Dispersion [ADC] | 31.385 |

**Notes:**

solid defect on bottom