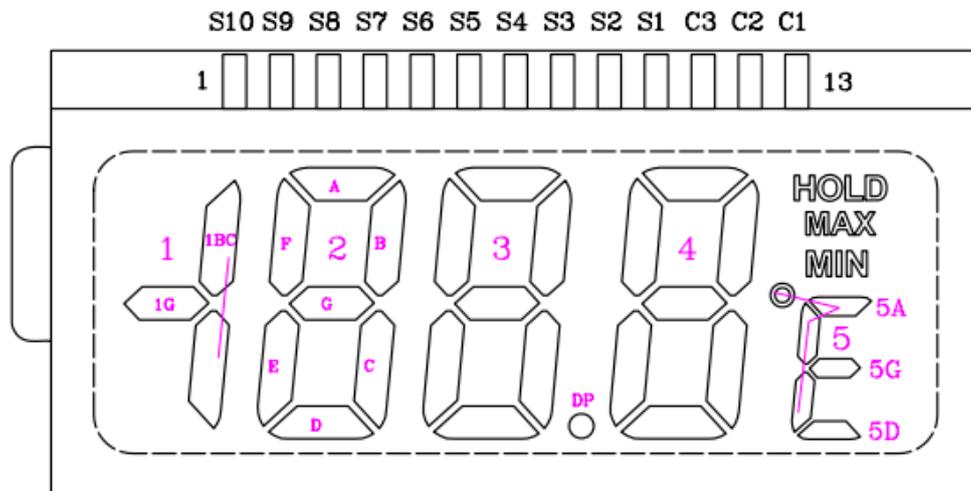


# DL8408 宽温度 IC 芯片

## 一、功能描述：

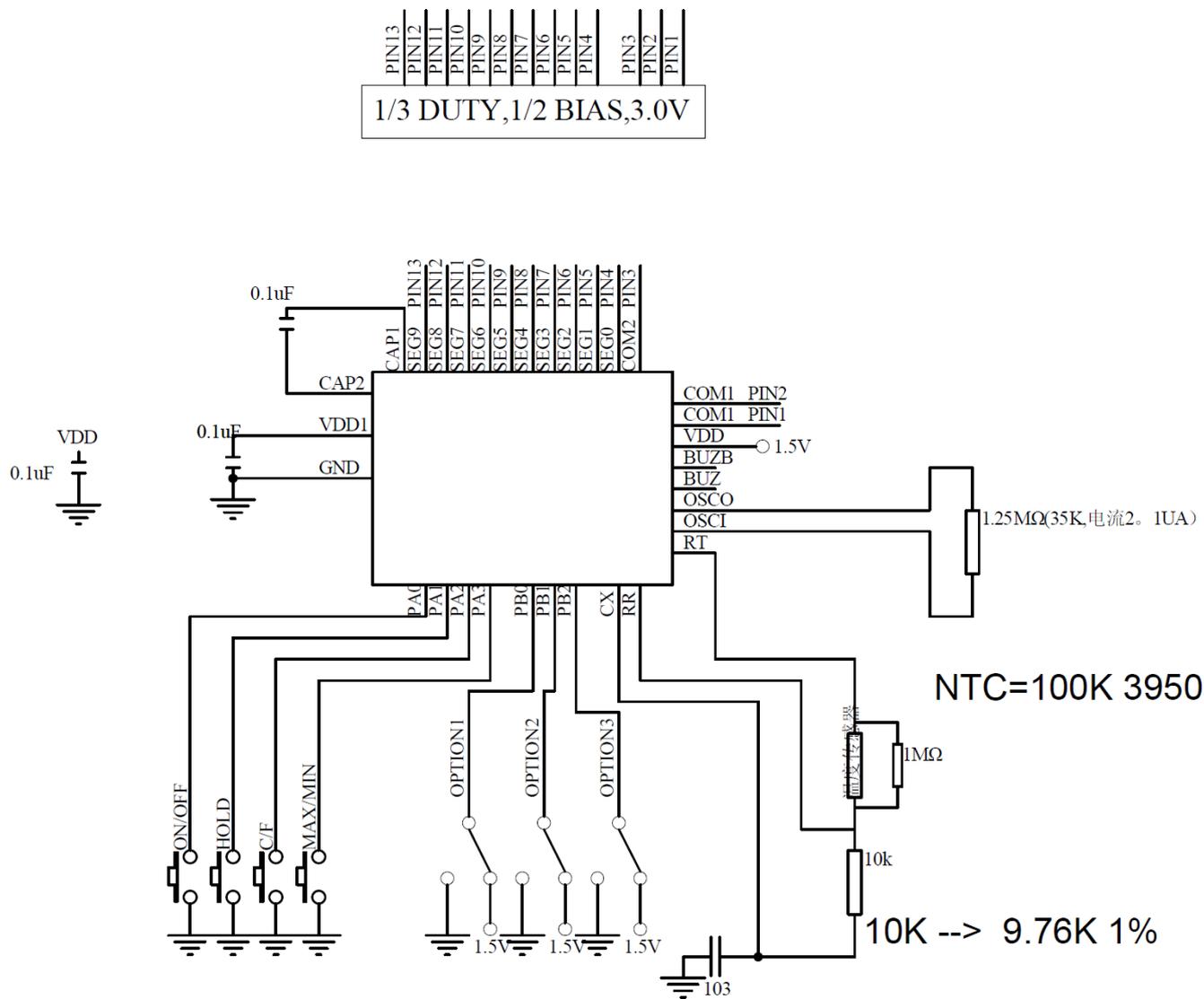
1. 工作电压 1.5 v 。
2. 温度显示。
3. 测温测试周期：1 秒或10秒
4. 量测过程中若温度大于量测范围，LCD 于小数点前两位显示Hi° C(Hi° F)  
量测过程中若温度小于量测范围，LCD 于小数点前两位显示Lo° C(Lo° F)
- 按键功能：1：ON/OFF：开机关机
5. C/F:温度单位摄氏度/华氏度转换
6. HOLD:温度保持，按下有“HOLD”字符显示并停止测温，在按返回正常
7. MAX/MIN:按下显示“最高温度”到“最低温度”到返回正常显示，在现实最高/最低温度的时候长按清除最高最低温度记忆。
8. LCD显示驱动。

## LCD 图



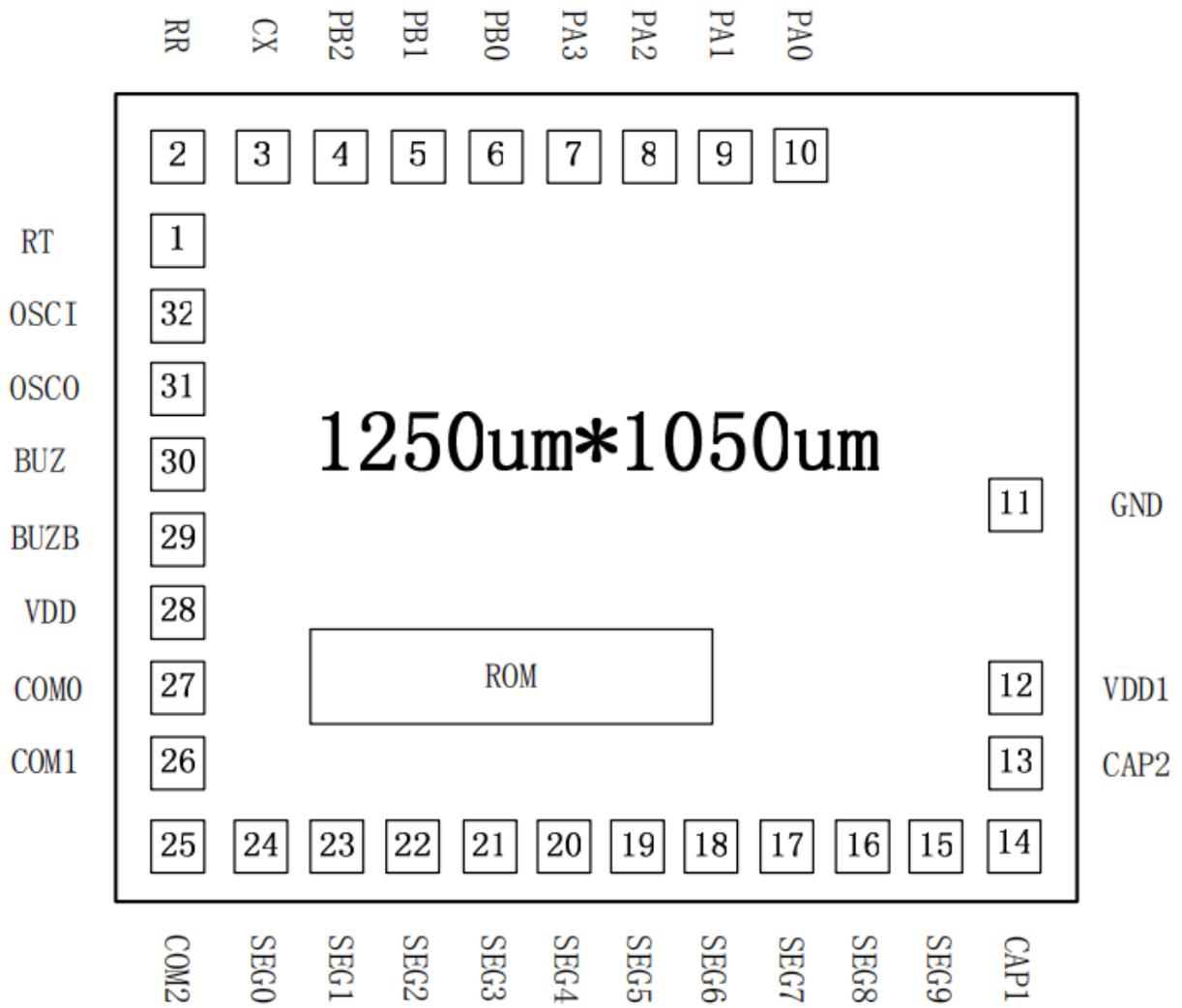
IC	SEG10	SEG9	SEG8	SEG7	SEG6	SEG5	SEG4	SEG3	SEG2	SEG1	COM3	COM2	COM1
PIN	1	2	3	4	5	6	7	8	9	10	11	12	13
COM3	2F	2A	2B	3F	3A	3B	4F	4A	4B	HOLD	C3	/	/
COM2	2E	2G	2C	3E	3G	3C	4E	4G	4C	MAX	/	C2	/
COM1	1G	2D	1BC	5G	3D	DP	5D	4D	5A	MIN	/	/	C1

# 参考电路图



- |         |     |          |
|---------|-----|----------|
| OPTION1 | VDD | 上电默认华氏度  |
|         | GND | 上电默认摄氏度  |
| OPTION2 | VDD | 1秒测温一次   |
|         | GND | 10秒测温一次  |
| OPTION3 | VDD | 10分钟自动关机 |
|         | GND | 无自动关机    |

# PAD 位置图:



PAD 坐标:

<b>NO.</b>	<b>NAME</b>	<b>X</b>	<b>Y</b>	<b>NO.</b>	<b>NAME</b>	<b>X</b>	<b>Y</b>
<b>1</b>	<b>RT</b>	96	856	<b>17</b>	<b>SEG7</b>	863	96
<b>2</b>	<b>RR</b>	96	954	<b>18</b>	<b>SEG6</b>	768	96
<b>3</b>	<b>CX</b>	196	954	<b>19</b>	<b>SEG5</b>	673	96
<b>4</b>	<b>PB2</b>	296	954	<b>20</b>	<b>SEG4</b>	578	96
<b>5</b>	<b>PB1</b>	391	954	<b>21</b>	<b>SEG3</b>	483	96
<b>6</b>	<b>PB0</b>	486	954	<b>22</b>	<b>SEG2</b>	388	96
<b>7</b>	<b>PA3</b>	581	954	<b>23</b>	<b>SEG1</b>	293	96
<b>8</b>	<b>PA2</b>	681	954	<b>24</b>	<b>SEG0</b>	198	96
<b>9</b>	<b>PA1</b>	781	954	<b>25</b>	<b>COM2</b>	96	96
<b>10</b>	<b>PA0</b>	881	954	<b>26</b>	<b>COM1</b>	96	194
<b>11</b>	<b>GND</b>	1154	550	<b>27</b>	<b>COM0</b>	96	286
<b>12</b>	<b>VDD1</b>	1154	289	<b>28</b>	<b>VDD</b>	96	379
<b>13</b>	<b>CAP2</b>	1154	194	<b>29</b>	<b>BUZB</b>	96	471
<b>14</b>	<b>CAP1</b>	1154	96	<b>30</b>	<b>BUZ</b>	96	571
<b>15</b>	<b>SEG9</b>	1053	96	<b>31</b>	<b>OSCO</b>	96	671
<b>16</b>	<b>SEG8</b>	958	96	<b>32</b>	<b>OSCI</b>	96	763

电阻-温度对应表

## Resistance-Temperature Table

**R at (25°C)= 100KΩ±1%**

**B25/50= 3950K ±1%**

T(°C)	Rmin(KΩ)	Rmax(KΩ)	Rnom(KΩ)	Tol.	T(°C)	Rmin(KΩ)	Rmax(KΩ)	Rnom(KΩ)	Tol.
-50	4876.007	5381.97	5128.987	4.93%	126	3.106	3.394	3.250	4.42%
-49	4689.967	5172.55	4931.261	4.89%	127	3.025	3.307	3.166	4.45%
-48	4501.400	4960.47	4730.935	4.85%	128	2.946	3.222	3.084	4.48%
-47	4298.224	4732.16	4515.190	4.81%	129	2.869	3.140	3.004	4.50%
-46	4190.088	4610.73	4400.409	4.78%	130	2.795	3.060	2.928	4.53%
-45	4039.916	4442.21	4241.061	4.74%	131	2.722	2.982	2.852	4.55%
-44	3840.574	4218.70	4029.636	4.69%	132	2.652	2.907	2.779	4.58%
-43	3649.916	4005.15	3827.532	4.64%	133	2.584	2.834	2.709	4.61%
-42	3450.364	3781.88	3616.120	4.58%	134	2.518	2.762	2.640	4.63%
-41	3282.674	3594.45	3438.564	4.53%	135	2.454	2.694	2.574	4.66%
-40	3094.953	3384.87	3239.914	4.47%	136	2.392	2.627	2.509	4.68%
-39	2900.000	3167.49	3033.747	4.41%	137	2.331	2.562	2.447	4.71%
-38	2718.832	2965.75	2842.289	4.34%	138	2.273	2.499	2.386	4.73%
-37	2550.374	2778.40	2664.386	4.28%	139	2.216	2.438	2.327	4.76%
-36	2393.645	2604.32	2498.981	4.22%	140	2.161	2.378	2.270	4.78%
-35	2247.744	2442.47	2345.107	4.15%	141	2.107	2.320	2.214	4.81%
-34	2111.847	2291.91	2201.879	4.09%	142	2.055	2.264	2.160	4.83%
-33	1985.197	2151.77	2068.484	4.03%	143	2.005	2.210	2.107	4.86%
-32	1867.100	2021.26	1944.179	3.96%	144	1.956	2.157	2.056	4.88%
-31	1756.918	1899.64	1828.281	3.90%	145	1.909	2.105	2.007	4.91%
-30	1654.065	1786.26	1720.161	3.84%	146	1.862	2.055	1.959	4.93%
-29	1556.822	1679.19	1618.004	3.78%	147	1.817	2.007	1.912	4.95%
-28	1466.020	1579.33	1522.674	3.72%	148	1.774	1.960	1.867	4.98%
-27	1381.188	1486.15	1433.669	3.66%	149	1.732	1.914	1.823	5.00%
-26	1301.893	1399.16	1350.525	3.60%	150	1.690	1.869	1.780	5.03%
-25	1227.735	1317.90	1272.816	3.54%	151	1.649	1.824	1.736	5.05%
-24	1158.347	1241.95	1200.149	3.48%	152	1.608	1.780	1.694	5.08%
-23	1093.389	1170.94	1132.164	3.42%	153	1.568	1.737	1.653	5.10%
-22	1032.548	1104.50	1068.526	3.37%	154	1.530	1.695	1.613	5.12%

R at (25°C)= 100KΩ±1%

B25/50= 3950K ±1%

T(°C)	Rmin(KΩ)	Rmax(KΩ)	Rnom(KΩ)	Tol.	T(°C)	Rmin(KΩ)	Rmax(KΩ)	Rnom(KΩ)	Tol.
-21	975.535	1042.32	1008.929	3.31%	155	1.493	1.655	1.574	5.15%
-20	922.084	984.09	953.087	3.25%	156	1.457	1.615	1.536	5.17%
-19	870.858	928.35	899.602	3.20%	157	1.421	1.577	1.499	5.20%
-18	822.846	876.16	849.504	3.14%	158	1.387	1.540	1.464	5.22%
-17	777.825	827.28	802.554	3.08%	159	1.354	1.504	1.429	5.24%
-16	735.590	781.48	758.535	3.02%	160	1.322	1.469	1.395	5.27%
-15	695.949	738.54	717.244	2.97%	161	1.291	1.435	1.363	5.29%
-14	658.725	698.26	678.493	2.91%	162	1.260	1.402	1.331	5.32%
-13	623.756	660.47	642.111	2.86%	163	1.231	1.369	1.300	5.34%
-12	590.891	624.98	607.936	2.80%	164	1.202	1.338	1.270	5.36%
-11	559.988	591.65	575.821	2.75%	165	1.174	1.308	1.241	5.39%
-10	530.918	560.34	545.627	2.70%	166	1.148	1.279	1.214	5.41%
-9	502.612	529.87	516.243	2.64%	167	1.123	1.252	1.187	5.43%
-8	476.011	501.28	488.646	2.59%	168	1.098	1.225	1.162	5.45%
-7	451.003	474.43	462.715	2.53%	169	1.075	1.199	1.137	5.47%
-6	427.481	449.20	438.339	2.48%	170	1.051	1.174	1.112	5.49%
-5	405.348	425.48	415.416	2.42%	171	1.029	1.149	1.089	5.52%
-4	385.795	404.55	395.174	2.37%	172	1.007	1.125	1.066	5.54%
-3	367.319	384.80	376.058	2.32%	173	0.985	1.101	1.043	5.56%
-2	349.855	366.14	357.998	2.27%	174	0.964	1.078	1.021	5.58%
-1	333.340	348.52	340.929	2.23%	175	0.944	1.056	1.000	5.60%
0	317.717	331.86	324.789	2.18%	176	0.924	1.034	0.979	5.62%
1	301.840	314.95	308.396	2.13%	177	0.905	1.013	0.959	5.64%
2	286.863	299.02	292.940	2.07%	178	0.886	0.992	0.939	5.66%
3	272.730	283.99	278.362	2.02%	179	0.867	0.972	0.920	5.68%
4	259.387	269.83	264.607	1.97%	180	0.850	0.952	0.901	5.70%
5	246.787	256.46	251.624	1.92%	181	0.831	0.932	0.882	5.73%
6	235.097	244.07	239.585	1.87%	182	0.813	0.912	0.863	5.75%
7	224.038	232.37	228.202	1.82%	183	0.795	0.893	0.844	5.77%
8	213.572	221.30	217.435	1.78%	184	0.778	0.874	0.826	5.79%
9	203.665	210.83	207.247	1.73%	185	0.762	0.856	0.809	5.81%
10	194.282	200.92	197.603	1.68%	186	0.745	0.838	0.792	5.83%
11	185.364	191.52	188.442	1.63%	187	0.730	0.820	0.775	5.86%
12	176.913	182.62	179.764	1.59%	188	0.714	0.803	0.759	5.88%