## NTC热敏电阻用于测量温度的误差分析

测试约定 1. CH#?表示测试板上通道编号 2. NTC#?表示NTC热敏电阻编号

	CH#1	测试时间	CH#2	测试时间	CH#3	测试时间	CH#4	测试时间
1	24. 06676	01:43:25.692]	24. 081132	01:43:44.740]	24. 070039	01:43:58.764]	24. 067443	01:44:13. 787]
2	24. 074536	01:43:26.706]	24. 08366	01:43:45.722]	24. 070665	01:43:59.762]	24. 076669	01:44:14.801]
3	24. 077133	01:43:27.689]	24. 077921	01:43:46.736	24. 082767	01:44:00.761]	24. 070143	01:44:15.784]
4	24. 077631	01:43:28.703]	24. 076866	01:43:47.735]	24. 079092	01:44:01.759]	24. 072612	01:44:16.798]
5	24. 076936	01:43:29.701]	24. 078188	01:43:48.733]	24. 071812	01:44:02.758]	24. 07995	01:44:17. 796]
6	24. 080993	01:43:30.700]	24. 084901	01:43:49.747	24. 083405	01:44:03.772]	24. 076263	01:44:18.794]
7	24. 07944	01:43:31.714]	24. 083231	01:43:50.746]	24. 071731	01:44:04.770]	24. 077504	01:44:19.808]
8	24. 089818	01:43:32.696]	24. 080645	01:43:51.744]	24. 077399	01:44:05.768]	24. 072798	01:44:20.791]
9	24. 082593	01:43:33.710]	24. 081179	01:43:52.742	24. 075916	01:44:06.782]	24. 079973	01:44:21.805]
10	24. 088878	_01:43:34.724] 	24. 082013	_01:43:53.741] T	24. 072937	_01:44:07. 765] ¬	24. 073968	01:44:22.804]
平均值 与CH#4比较	24. 0794718 0. 0047395		24. 0809736 0. 0062413	+ -	24. 0755763 0. 000844	-	24. 0747323	-
结论		』 NTC温度的影响并		」 慢作过程由可以?			0	
SHIND	1. 01/202/1	1110 tm/ 2   1 3/2 11 17	17万显,大两	WIFE ET 1987	S-10 以 人 王			
	NTC#1	测试时间	NTC#2	测试时间	NTC#3	测试时间	NTC#4	测试时间
1	23. 139363	03:43:19.542]	23. 191343	03:43:35.573]	23. 354757	03:43:49.603]	23. 126266	03:44:03.618]
2	23. 143816	03:43:20.533]	23. 195648	03:43:36.565]	23. 36139	03:43:50.595]	23. 127876	03:44:04.628]
3	23. 148168	03:43:21.541]	23. 201119	03:43:37.572]	23. 362405	03:43:51.603]	23. 131008	03:44:05.634]
4	23. 14499	03:43:22.549]	23. 200088	03:43:38.580]	23. 363917	03:43:52.595]	23. 131175	03:44:06.626]
5	23. 147206	03:43:23.542]	23. 204304	03:43:39.573]	23. 359247	03:43:53.603]	23. 127373	03:44:07.635]
6	23. 150317	03:43:24.560]	23. 202297	03:43:40.581]	23. 365249	03:43:54.611]	23. 130225	03:44:08.627]
7	23. 150116	03:43:25.542]	23. 207096	03:43:41.572]	23. 360758	03:43:55.604]	23. 13509	03:44:09.635]
8	23. 148359	03:43:26.549]	23. 209082	03:43:42.580]	23. 361413	03:43:56.611]	23. 138893	03:44:10.642]
9	23. 151649	03:43:27.557]	23. 20408	03:43:43.588]	23. 360702	03:43:57.622]	23. 135235	03:44:11.634]
10	23. 151	_03:43:28.549]	23. 20685	_03:43:44.565]	23. 359709	_03:43:58.611]	23. 13896	03:44:12.642]
平均值	23. 1474984	_	23. 2021907		23. 3609547		23. 1322101	
与NTC#4比较	0. 0152883	<u> </u>	0.0699806	<u> </u>	0. 2287446		0	
结论	1. NTC个体之间	可存在较大的误差	E, 该误差在实	际应用中不可忽	各			
误差来源	CH#1+NTC#1		CH#2+NTC#2		CH#3+NTC#3		CH#4+NTC#4	
灰 <i>左/N/</i>	CHHIINICHI		CH#Z INTO#Z		CHHOTNICHO		CHHTINICHT	
误差士小	0.0200278		0.0762219		0 2295886		0	
误差大小 结论	0.0200278 1. 将通道误差	和NTC个体误差相	0.0762219 ]加,得出这四 <sup>-</sup>	个NTC在测量电路	0.2295886 中的相对误差		0	
误差大小 结论		和NTC个体误差相		个NTC在测量电路			0	
		和NTC个体误差相 测试时间		个NTC在测量电路 测试时间		测试时间	0 CH#4+NTC#4	测试时间
结论 1	1. 将通道误差 CH#1+NTC#1 22. 907428	测试时间 04:28:30.794]	i加, 得出这四 CH#2+NTC#2 22. 939673	测试时间 04:28:56.841]	中的相对误差 CH#3+NTC#3 23. 102193	测试时间 04:29:21.900]	CH#4+NTC#4 22. 881647	04:29:46.933]
结论 1 2	1. 将通道误差 CH#1+NTC#1 22. 907428 22. 907772	测试时间 04:28:30.794] 04:28:31.786]	l加,得出这四- CH#2+NTC#2 22.939673 22.939618	测试时间 04:28:56.841] 04:28:57.849]	中的相对误差 CH#3+NTC#3 23. 102193 23. 106405	测试时间 04:29:21.900] 04:29:22.887]	CH#4+NTC#4 22. 881647 22. 883919	04:29:46.933] 04:29:47.941]
结论 1 2 3	1. 将通道误差 CH#1+NTC#1 22. 907428 22. 907772 22. 910079	测试时间 04:28:30.794] 04:28:31.786] 04:28:32.795]	加,得出这四 CH#2+NTC#2 22.939673 22.939618 22.94276	测试时间 04:28:56.841] 04:28:57.849] 04:28:58.840]	中的相对误差 CH#3+NTC#3 23. 102193 23. 106405 23. 108226	测试时间 04:29:21.900] 04:29:22.887] 04:29:23.895]	CH#4+NTC#4 22. 881647 22. 883919 22. 886146	04:29:46.933] 04:29:47.941] 04:29:48.949]
结论 1 2 3 4	1. 将通道误差 CH#1+NTC#1 22. 907428 22. 907772 22. 910079 22. 908038	测试时间 04:28:30.794] 04:28:31.786] 04:28:32.795] 04:28:33.802]	T加,得出这四 CH#2+NTC#2 22.939673 22.939618 22.94276 22.943426	测试时间 04:28:56.841] 04:28:57.849] 04:28:58.840] 04:28:59.848]	中的相对误差 CH#3+NTC#3 23. 102193 23. 106405 23. 108226 23. 114763	测试时间 04:29:21.900] 04:29:22.887] 04:29:23.895] 04:29:24.887]	CH#4+NTC#4 22. 881647 22. 883919 22. 886146 22. 886633	04:29:46.933] 04:29:47.941] 04:29:48.949] 04:29:49.941]
结论 1 2 3 4 5	1. 将通道误差 CH#1+NTC#1 22. 907428 22. 907772 22. 910079 22. 908038 22. 906597	测试时间 04:28:30.794] 04:28:31.786] 04:28:32.795] 04:28:33.802] 04:28:34.794]	H加, 得出这四 CH#2+NTC#2 22. 939673 22. 939618 22. 94276 22. 943426 22. 941594	测试时间 04:28:56.841] 04:28:57.849] 04:28:58.840] 04:28:59.848] 04:29:00.840]	中的相对误差 CH#3+NTC#3 23. 102193 23. 106405 23. 108226 23. 114763 23. 109243	测试时间 04:29:21.900] 04:29:22.887] 04:29:23.895] 04:29:24.887] 04:29:25.896]	CH#4+NTC#4 22. 881647 22. 883919 22. 886146 22. 886633 22. 879288	04:29:46.933] 04:29:47.941] 04:29:48.949] 04:29:49.941] 04:29:50.949]
结论 1 2 3 4 5 6	1. 将通道误差 CH#1+NTC#1 22. 907428 22. 907772 22. 910079 22. 908038 22. 906597 22. 90694	测试时间 04:28:30.794] 04:28:31.786] 04:28:32.795] 04:28:33.802] 04:28:34.794] 04:28:35.794]	H加, 得出这四 CH#2+NTC#2 22. 939673 22. 939618 22. 94276 22. 943426 22. 941594 22. 946113	测试时间 04:28:56.841] 04:28:57.849] 04:28:58.840] 04:28:59.848] 04:29:00.840] 04:29:01.848]	中的相对误差 CH#3+NTC#3 23. 102193 23. 106405 23. 108226 23. 114763 23. 109243 23. 107209	测试时间 04:29:21.900] 04:29:22.887] 04:29:23.895] 04:29:24.887] 04:29:25.896] 04:29:26.903]	CH#4+NTC#4 22. 881647 22. 883919 22. 886146 22. 886633 22. 879288 22. 884406	04:29:46.933] 04:29:47.941] 04:29:48.949] 04:29:49.941] 04:29:50.949] 04:29:51.941]
结论 1 2 3 4 5 6 7	1. 将通道误差 CH#1+NTC#1 22. 907428 22. 907772 22. 910079 22. 908038 22. 906597 22. 90694 22. 908005	测试时间 04:28:30.794] 04:28:31.786] 04:28:32.795] 04:28:33.802] 04:28:34.794] 04:28:35.794] 04:28:36.787]	H加, 得出这四 CH#2+NTC#2 22. 939673 22. 939618 22. 94276 22. 943426 22. 941594 22. 946113 22. 948479	测试时间 04:28:56.841] 04:28:57.849] 04:28:58.840] 04:28:59.848] 04:29:00.840] 04:29:01.848] 04:29:02.856]	中的相对误差 CH#3+NTC#3 23. 102193 23. 106405 23. 108226 23. 114763 23. 109243 23. 107209 23. 107276	测试时间 04:29:21.900] 04:29:22.887] 04:29:23.895] 04:29:24.887] 04:29:25.896] 04:29:26.903] 04:29:27.895]	CH#4+NTC#4 22. 881647 22. 883919 22. 886146 22. 886633 22. 879288 22. 884406 22. 888639	04:29:46.933] 04:29:47.941] 04:29:48.949] 04:29:49.941] 04:29:50.949] 04:29:51.941] 04:29:52.949]
结论 1 2 3 4 5 6 7 8	1. 将通道误差 CH#1+NTC#1 22. 907428 22. 907772 22. 910079 22. 908038 22. 906597 22. 90694 22. 908005 22. 907273	测试时间 04:28:30.794] 04:28:31.786] 04:28:32.795] 04:28:33.802] 04:28:34.794] 04:28:35.794] 04:28:36.787]	H加,得出这四 CH#2+NTC#2 22.939673 22.939618 22.94276 22.943426 22.941594 22.946113 22.948479 22.945825	测试时间 04:28:56.841] 04:28:57.849] 04:28:58.840] 04:28:59.848] 04:29:00.840] 04:29:01.848] 04:29:02.856] 04:29:03.848]	中的相对误差 CH#3+NTC#3 23. 102193 23. 106405 23. 108226 23. 114763 23. 109243 23. 107209 23. 107276 23. 113333	测试时间 04:29:21.900] 04:29:22.887] 04:29:23.895] 04:29:24.887] 04:29:25.896] 04:29:26.903] 04:29:27.895] 04:29:28.893]	CH#4+NTC#4 22. 881647 22. 883919 22. 886146 22. 886633 22. 879288 22. 884406 22. 888639 22. 886467	04:29:46.933] 04:29:47.941] 04:29:48.949] 04:29:49.941] 04:29:50.949] 04:29:51.941] 04:29:52.949] 04:29:53.956]
结论 1 2 3 4 5 6 7 8 9	1. 将通道误差 CH#1+NTC#1 22. 907428 22. 907772 22. 910079 22. 908038 22. 906597 22. 90694 22. 908005 22. 907273 22. 90816	测试时间 04:28:30.794] 04:28:31.786] 04:28:32.795] 04:28:33.802] 04:28:34.794] 04:28:35.794] 04:28:36.787] 04:28:37.801] 04:28:38.810]	H加,得出这四 CH#2+NTC#2 22.939673 22.939618 22.94276 22.941594 22.946113 22.948479 22.945825 22.945913	测试时间 04:28:56.841] 04:28:57.849] 04:28:58.840] 04:28:59.848] 04:29:00.840] 04:29:01.848] 04:29:02.856] 04:29:03.848] 04:29:04.856]	中的相对误差 CH#3+NTC#3 23. 102193 23. 106405 23. 108226 23. 114763 23. 109243 23. 107209 23. 107276 23. 113333 23. 110964	测试时间 04:29:21.900] 04:29:22.887] 04:29:23.895] 04:29:24.887] 04:29:25.896] 04:29:26.903] 04:29:27.895] 04:29:28.893] 04:29:29.896]	CH#4+NTC#4 22. 881647 22. 883919 22. 886146 22. 886633 22. 879288 22. 884406 22. 888639 22. 886467 22. 886722	04:29:46.933] 04:29:47.941] 04:29:48.949] 04:29:49.941] 04:29:50.949] 04:29:51.941] 04:29:52.949] 04:29:53.956] 04:29:54.948]
结论 1 2 3 4 5 6 7 8 9 10	1. 将通道误差 CH#1+NTC#1 22. 907428 22. 907772 22. 910079 22. 908038 22. 906597 22. 90694 22. 908005 22. 907273 22. 90816 22. 913095	测试时间 04:28:30.794] 04:28:31.786] 04:28:32.795] 04:28:33.802] 04:28:34.794] 04:28:35.794] 04:28:36.787] 04:28:37.801] 04:28:38.810]	H加,得出这四 CH#2+NTC#2 22.939673 22.939618 22.94276 22.941594 22.946113 22.948479 22.945913 22.946435	测试时间 04:28:56.841] 04:28:57.849] 04:28:58.840] 04:28:59.848] 04:29:00.840] 04:29:01.848] 04:29:02.856] 04:29:03.848] 04:29:04.856] 04:29:05.863]	CH#3+NTC#3 23. 102193 23. 106405 23. 108226 23. 114763 23. 109243 23. 107209 23. 107276 23. 113333 23. 110964 23. 110561	测试时间 04:29:21.900] 04:29:22.887] 04:29:23.895] 04:29:24.887] 04:29:25.896] 04:29:26.903] 04:29:27.895] 04:29:28.893] 04:29:28.893]	CH#4+NTC#4 22. 881647 22. 883919 22. 886146 22. 886633 22. 879288 22. 884406 22. 888639 22. 886467 22. 886722 22. 88393	04:29:46.933] 04:29:47.941] 04:29:48.949] 04:29:50.949] 04:29:51.941] 04:29:52.949] 04:29:53.956] 04:29:54.948] 04:29:55.957]
结论 1 2 3 4 5 6 7 8 9 10 11	1. 将通道误差 CH#1+NTC#1 22. 907428 22. 907772 22. 910079 22. 908038 22. 906597 22. 90694 22. 908005 22. 907273 22. 90816 22. 913095 22. 911066	测试时间 04:28:30.794] 04:28:31.786] 04:28:32.795] 04:28:33.802] 04:28:34.794] 04:28:35.794] 04:28:36.787] 04:28:37.801] 04:28:38.810] 04:28:39.802] 04:28:40.810]	H加,得出这四 CH#2+NTC#2 22.939673 22.939618 22.94276 22.941594 22.946113 22.948479 22.945913 22.946435 22.950945	测试时间 04:28:56.841] 04:28:57.849] 04:28:58.840] 04:28:59.848] 04:29:00.840] 04:29:01.848] 04:29:02.856] 04:29:03.848] 04:29:04.856] 04:29:05.863] 04:29:06.856]	CH#3+NTC#3 23. 102193 23. 106405 23. 108226 23. 114763 23. 109243 23. 107209 23. 107276 23. 113333 23. 110964 23. 110561 23. 111265	测试时间 04:29:21.900] 04:29:22.887] 04:29:23.895] 04:29:24.887] 04:29:25.896] 04:29:26.903] 04:29:27.895] 04:29:28.893] 04:29:28.893] 04:29:30.902] 04:29:31.910]	CH#4+NTC#4 22. 881647 22. 883919 22. 886146 22. 886633 22. 879288 22. 884406 22. 888639 22. 886467 22. 886722 22. 88393 22. 893537	04:29:46.933] 04:29:47.941] 04:29:48.949] 04:29:50.949] 04:29:51.941] 04:29:52.949] 04:29:53.956] 04:29:54.948] 04:29:55.957] 04:29:56.964]
结论  1 2 3 4 5 6 7 8 9 10 11 12	1. 将通道误差 CH#1+NTC#1 22. 907428 22. 907772 22. 910079 22. 908038 22. 906597 22. 90694 22. 908005 22. 907273 22. 90816 22. 913095 22. 911066 22. 911709	测试时间 04:28:30.794] 04:28:31.786] 04:28:32.795] 04:28:33.802] 04:28:34.794] 04:28:35.794] 04:28:36.787] 04:28:37.801] 04:28:38.810] 04:28:39.802] 04:28:40.810] 04:28:41.818]	H加,得出这四 CH#2+NTC#2 22.939673 22.939618 22.94276 22.941594 22.946113 22.948479 22.945913 22.946435 22.950945 22.946935	测试时间 04:28:56.841] 04:28:57.849] 04:28:58.840] 04:28:59.848] 04:29:00.840] 04:29:01.848] 04:29:02.856] 04:29:03.848] 04:29:04.856] 04:29:05.863] 04:29:06.856] 04:29:07.864]	CH#3+NTC#3 23. 102193 23. 106405 23. 108226 23. 114763 23. 109243 23. 107209 23. 107276 23. 113333 23. 110964 23. 110561 23. 111265 23. 113389	测试时间 04:29:21.900] 04:29:22.887] 04:29:23.895] 04:29:24.887] 04:29:25.896] 04:29:26.903] 04:29:27.895] 04:29:28.893] 04:29:28.893] 04:29:30.902] 04:29:31.910] 04:29:32.918]	CH#4+NTC#4 22. 881647 22. 883919 22. 886146 22. 886633 22. 879288 22. 884406 22. 888639 22. 886467 22. 886722 22. 88393 22. 893537 22. 89039	04:29:46.933] 04:29:47.941] 04:29:48.949] 04:29:50.949] 04:29:51.941] 04:29:52.949] 04:29:53.956] 04:29:54.948] 04:29:55.957] 04:29:56.964] 04:29:57.957]
结论  1 2 3 4 5 6 7 8 9 10 11 12 13	1. 将通道误差 CH#1+NTC#1 22. 907428 22. 907772 22. 910079 22. 908038 22. 906597 22. 90694 22. 908005 22. 907273 22. 90816 22. 913095 22. 911066 22. 911709 22. 904246	测试时间 04:28:30.794] 04:28:31.786] 04:28:32.795] 04:28:33.802] 04:28:34.794] 04:28:35.794] 04:28:36.787] 04:28:37.801] 04:28:38.810] 04:28:39.802] 04:28:40.810] 04:28:41.818] 04:28:42.810]	H加,得出这四 CH#2+NTC#2 22.939673 22.939618 22.94276 22.941594 22.946113 22.948479 22.945913 22.946435 22.946935 22.946935 22.942094	测试时间 04:28:56.841] 04:28:57.849] 04:28:58.840] 04:28:59.848] 04:29:00.840] 04:29:01.848] 04:29:02.856] 04:29:03.848] 04:29:04.856] 04:29:05.863] 04:29:06.856] 04:29:07.864] 04:29:08.856]	CH#3+NTC#3 23. 102193 23. 106405 23. 108226 23. 114763 23. 109243 23. 107209 23. 107276 23. 113333 23. 110964 23. 110561 23. 111265 23. 113389 23. 110885	测试时间 04:29:21.900] 04:29:22.887] 04:29:23.895] 04:29:24.887] 04:29:25.896] 04:29:26.903] 04:29:27.895] 04:29:28.893] 04:29:28.893] 04:29:30.902] 04:29:31.910] 04:29:32.918]	CH#4+NTC#4 22. 881647 22. 883919 22. 886146 22. 886633 22. 879288 22. 884406 22. 888639 22. 886467 22. 886722 22. 88393 22. 893537 22. 89039 22. 887531	04:29:46.933] 04:29:47.941] 04:29:48.949] 04:29:50.949] 04:29:51.941] 04:29:52.949] 04:29:53.956] 04:29:54.948] 04:29:55.957] 04:29:56.964] 04:29:57.957] 04:29:58.965]
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<sup>2.</sup> 使用NTC测量温度主要误差来源是NTC电阻自身误差