AAEON Technology INC.
ISO-9001/ISO-14001 Certified
Industrial Automation PCs

PCM-6890B
Thermal Image Analysis Report

Release Date: JUNE.29, 2000

Issue Stamp	QA Manager	QE Manager	Test Engineer

Thermal Image Analysis

Ⅰ. **Model Name:** **PCM-6890B**

Ⅱ. **Description:** **FC/Socket 370 Compact Board with LD, Ethernet, Audio, & 4 COMs**

Ⅲ. **Date:** **JUNE. 29, 2000**

Ⅳ. Measure **Site:** **AAEON QE Dept.**

Ⅴ. **Issued by :** **Fenglin Dong**

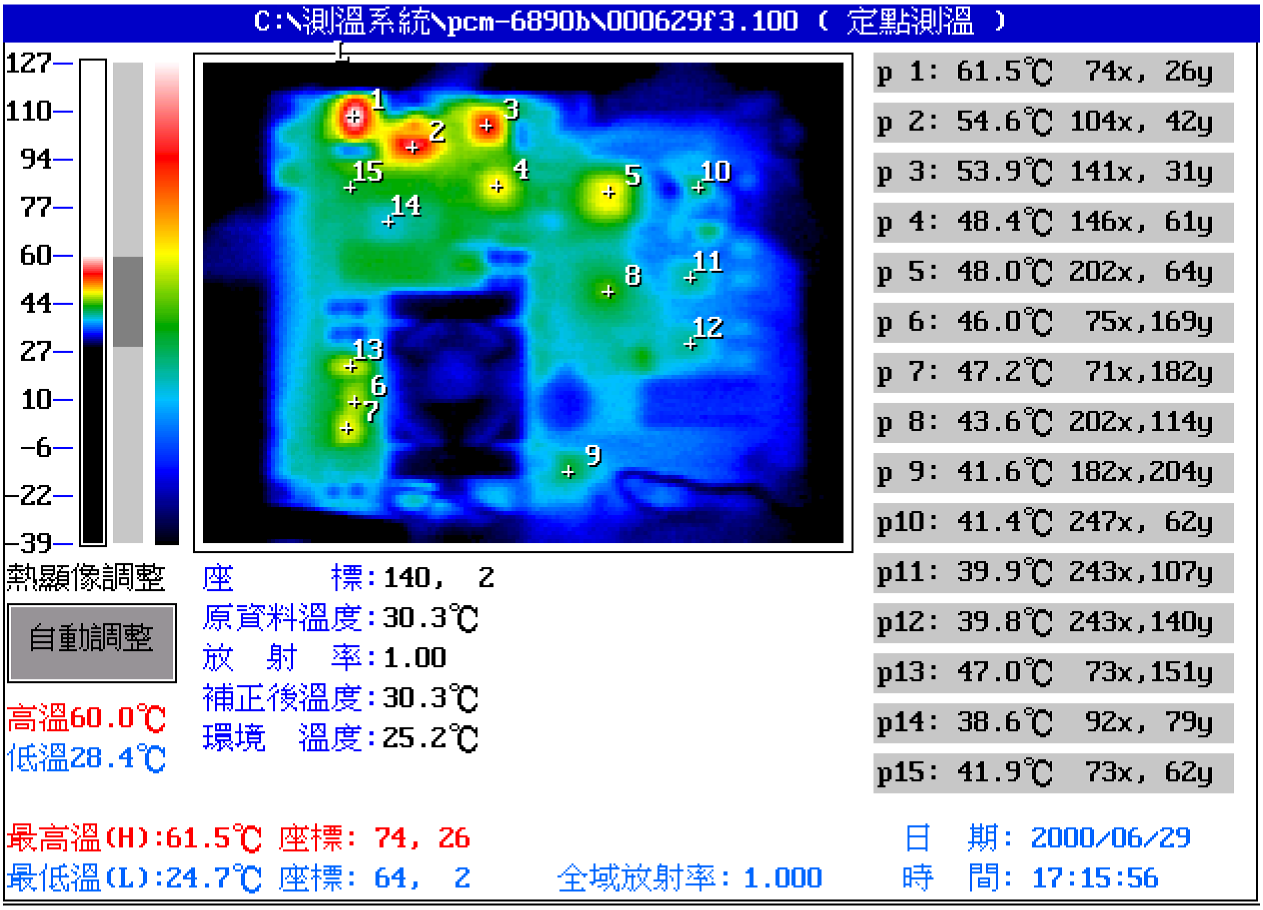
Ⅵ.**Equipment:** **TVS-100 series by NIPPON AVIONICS CO., LTD.**

Ⅶ. **Simulation Environment:**

- **Temperature: 25.2 degrees C**
- **CPU: Celeron**
- **RAM: 128 MB**
- **Hardware: DiskOnChip**
- **Application Software: QAPLUS/FE V5.2**
- **Take Picture Time: Power on 30 minutes after**

Ⅷ. Prediction Result:

1. Component Side:



C:\測溫系統\pcm-6890b\000629f3.100 (定點測溫)

高溫60.0℃
低溫28.4℃

座 標:140, 2
原資料溫度:30.3℃
放 射 率:1.00
補正後溫度:30.3℃
環境 溫度:25.2℃

```
p 1: 61.5℃  74x, 26y
p 2: 54.6℃ 104x, 42y
p 3: 53.9℃ 141x, 31y
p 4: 48.4℃ 146x, 61y
p 5: 48.0℃ 202x, 64y
p 6: 46.0℃  75x,169y
p 7: 47.2℃  71x,182y
p 8: 43.6℃ 202x,114y
p 9: 41.6℃ 182x,204y
p10: 41.4℃ 247x, 62y
p11: 39.9℃ 243x,107y
p12: 39.8℃ 243x,140y
p13: 47.0℃  73x,151y
p14: 38.6℃  92x, 79y
p15: 41.9℃  73x, 62y
```

最高溫(H):61.5℃ 座標: 74, 26
最低溫(L):24.7℃ 座標: 64, 2 全域放射率: 1.000
日 期: 2000/06/29
時 間: 17:15:56

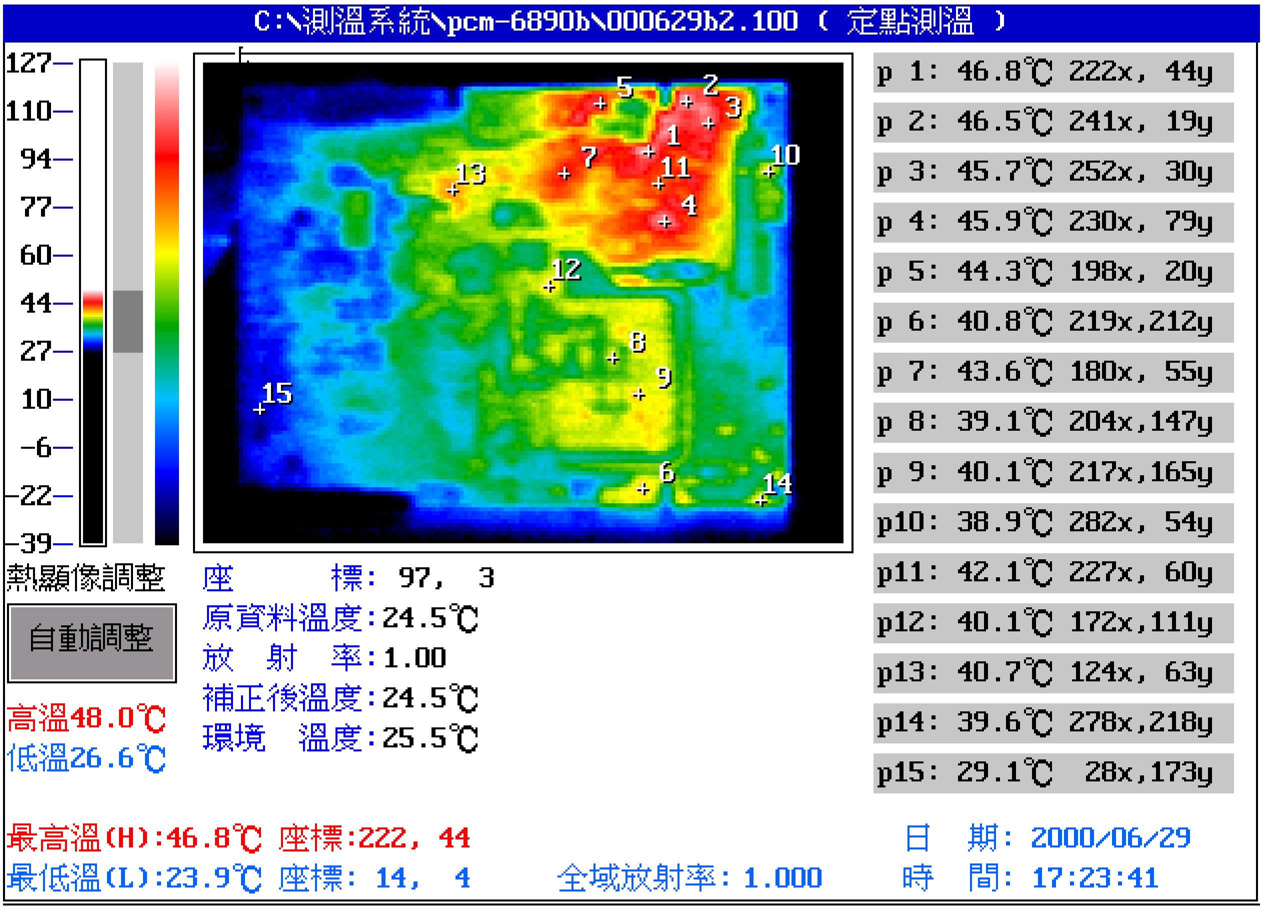
Point	Position	Describe	Ts	Tm	Note
1	U1	ICS-9248-39	70	61.5	※ = -26.5
2	Q4	AMS 1083CT	---	54.6	
3	U4	ESS1938	70	53.9	※ = -18.9
4	U5	INTEL, G082559	75	48.4	※ = -8.4
5	U13	CHIPS, B69000	70	48.0	※ = -13
6	Q2	PHB 50N003LT	---	46.0	
7	Q3	PHB 50N003LT	---	47.2	
8	U14	INTEL, FW82371EB SL37M	75	43.6	※ = -8.6
9	U11	16V8	---	41.6	
10	---				
11	U21	ITE TI8661F	70	39.9	
12	U22	Winbond W83977EF	70	39.8	
13	---				
14	U2	82443BX	70	39.6	
15	U2	82443BX	70	41.9	※ = -6.9

1. **Operation Temperature (℃):**

Ts = Defined by component specification ; Tm = Measured by QE

2. ※ = Ts - (Tm + 60 - 25)

2. Solder Side:



C:\測溫系統\pcm-6890b\000629b2.100 (定點測溫)

熱顯像調整

高溫48.0℃
低溫26.6℃

座　　標: 97, 3
原資料溫度:24.5℃
放　射　率:1.00
補正後溫度:24.5℃
環境　溫度:25.5℃

```
p 1: 46.8℃ 222x, 44y
p 2: 46.5℃ 241x, 19y
p 3: 45.7℃ 252x, 30y
p 4: 45.9℃ 230x, 79y
p 5: 44.3℃ 198x, 20y
p 6: 40.8℃ 219x,212y
p 7: 43.6℃ 180x, 55y
p 8: 39.1℃ 204x,147y
p 9: 40.1℃ 217x,165y
p10: 38.9℃ 282x, 54y
p11: 42.1℃ 227x, 60y
p12: 40.1℃ 172x,111y
p13: 40.7℃ 124x, 63y
p14: 39.6℃ 278x,218y
p15: 29.1℃  28x,173y
```

最高溫(H):46.8℃ 座標:222, 44
最低溫(L):23.9℃ 座標: 14, 4　　全域放射率: 1.000

日　期: 2000/06/29
時　間: 17:23:41

Point	Position	Describe	Ts	Tm	Note
1	---				
2	---				
3	---				
4	---				
5	---				
6	---				
7	---				
8	---				
9	---				
10	---				
11	---				
12	---				
13	---				
14	---				
15	---				

1. Operation Temperature (℃):

Ts = Defined by component specification ; Tm = Measured by QE

2. ※ = Ts - (Tm + 60 - 25)