



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

PCM-5896 rev:C01

Thermal Image Analysis Report

Release Date: Mar . 13, 2003

03-13-2003

Issue Stamp

Wayne Chang

DV Manager

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Test Engineer

Thermal Image Analysis

. **Model Name:** PCM-5896 Rev.C0.1 (BIOS:0.2)

. **Description:** Compact Board.

. **Date:** Mar. 12, 2003

. **Measure Site:** AAEON DV Dept.

. **Issued by :** Rex Chang

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

. **Simulation Environment:**

Temperature: Component Side : 23.2 degrees C

CPU: Onboard Intel Technology 266MHz (BGA Type)

RAM: 64MB SDRAM NEC D4564841G-A80-9JF(PC-100 SDRAM)

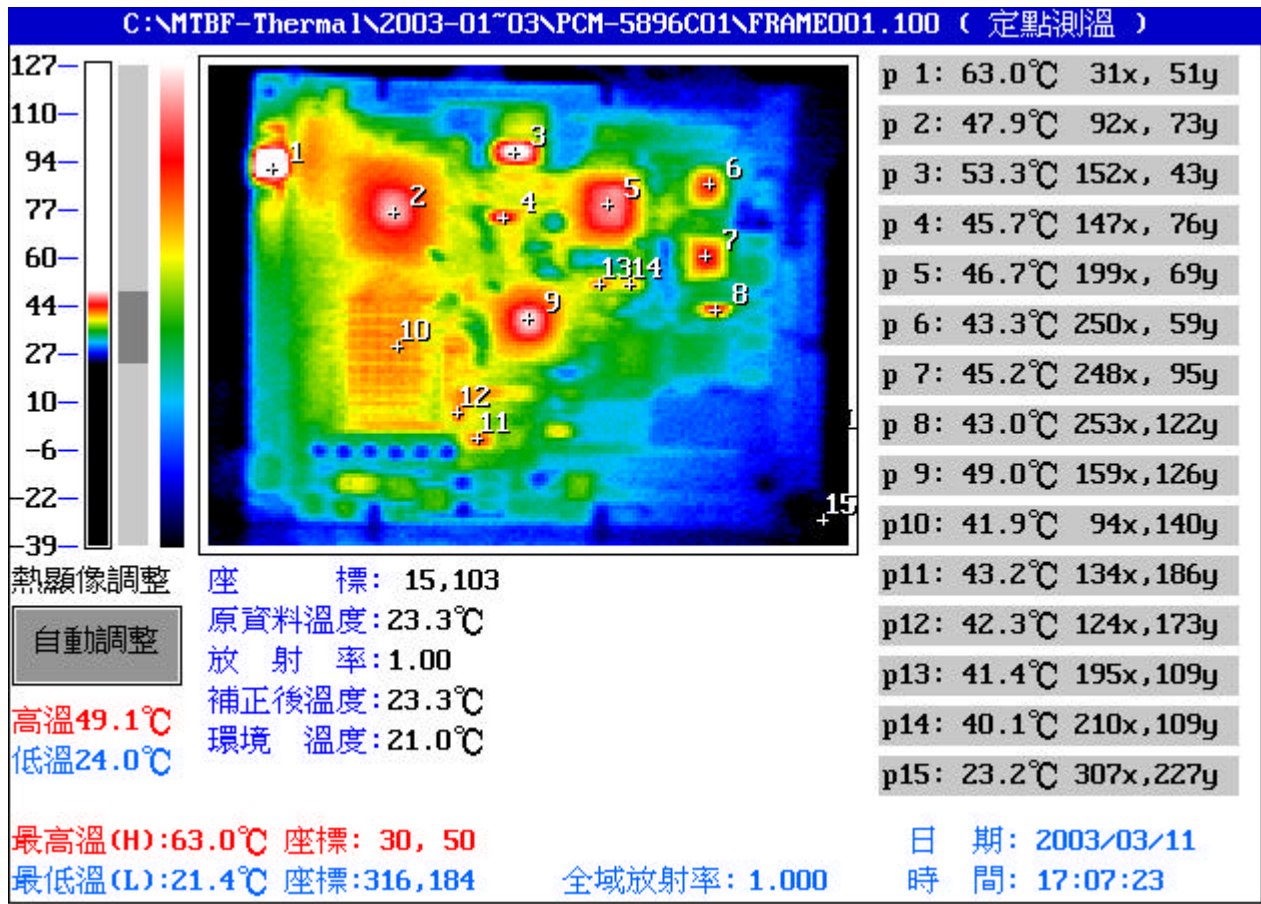
Hardware: Compact Msystem DOC 16MB

Application Software: QAPLus 5.5

Take Picture Time: Power on 30 minutes after

Temperature Profile Test:

Component Side:



Picture 1

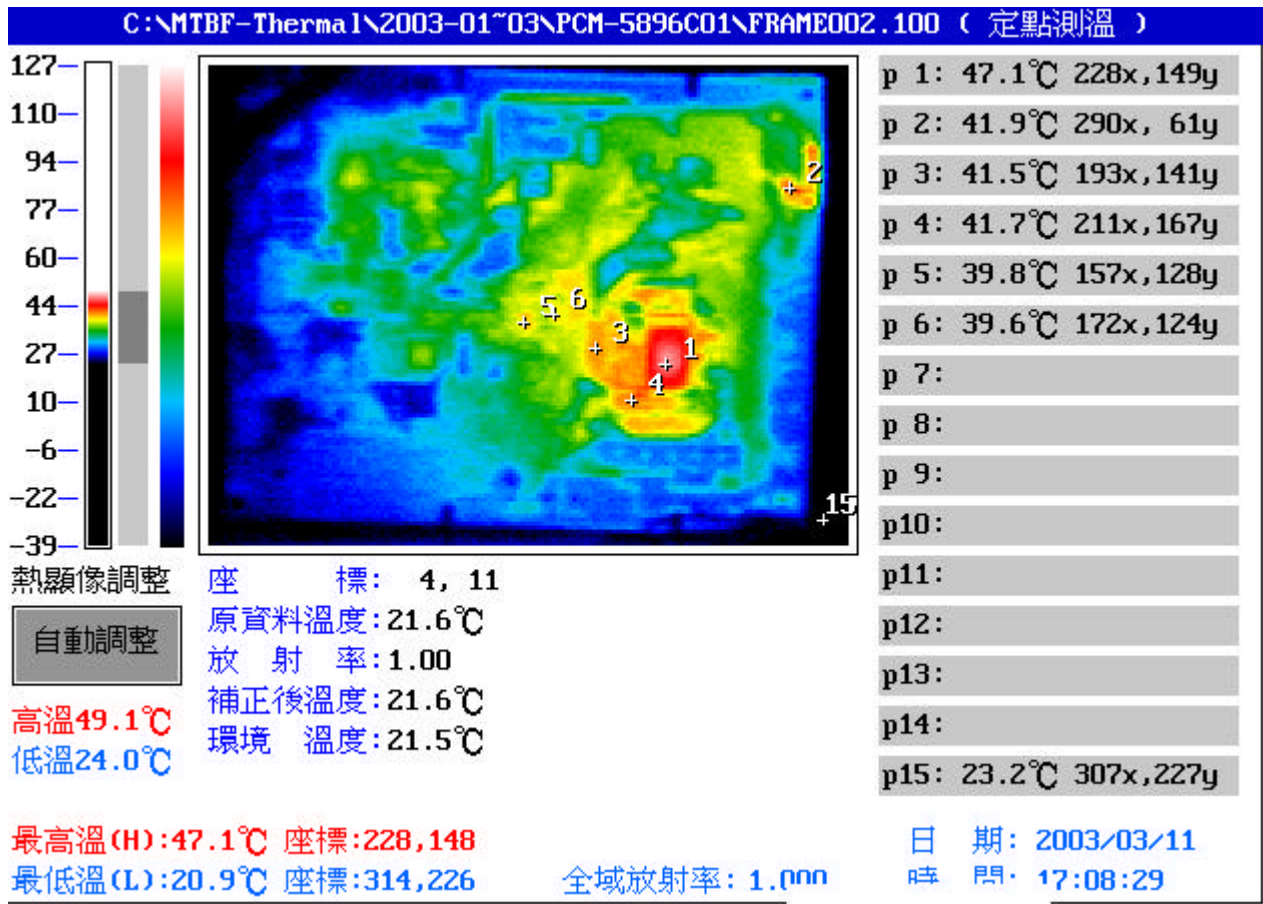
Point	Position	Describe	Ts	Tm	Note
1	Q7	REG.SMD.8A Linear Regulator TO-263.AMS.AMS1083CM		63.0	
2	U5	IC.SMD BGA 456Pin.North Bridge Pentium Chipset.ALI.M1541		47.9	
3	U9	IC.SMD SSOP 48Pin.ICS9148BF-36.100MHZ Clock Generator.ICS.9148-36		53.3	
4	U8	IC.SMD.SOP.PHILIPS.N74F14DT		45.7	
5	U27	IC.SMD.CAT CHIP.HiQVideo Accelerator 272P BGA.CHIPS.B69000		46.7	
6	U24	IC.SMD.LQFP 100P PCI Ethernet Chip.RELTEK.RTL8139DL		43.3	
7	U16	IC.SMD TQFP.100P PCI Audio Chipset.ESS.ES1938(Solo-1)		45.2	
8	Q2	REG.DIP.CASE 221A.MOTOROL.MOMC7805CT		43.0	
9	U28	IC.SMD BGA 328Pin.South Bridge Pentium Chipset.ALI.M1543C		49.0	
10	U4	INTEL CPU.Pentium MMX.266MHZ.on 0.25 Micron PBGA		41.9	
11	U36	IC.SMD SSOP-20.5Bit.Switching Reg Controller.LINEAR.LTC1553CG		43.2	
12	Q1	REG.SMD SOT223.1A Linear Regulator.UNISEM.US1010CY		42.3	
13	U19	IC.SMD.SOP.TLSN74F08		41.4	
14	U11	IC.SMD.SOP.HITACHI.HD74LS125		40.1	
15		The Room Temperature		23.2	

1. Operation Temperature ():

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

Temperature Profile Test:

Solder Side:



Picture 2

Point	Position	Describe	Ts	Tm	Note
1	U15	IC.SMD.64K*64bit.PB SRAM 128P QFP/LQFP.ELITE MT.LP61G6464BF-5		47.1	
2	Q7	Reversed side of PCB (REG.SMD.8A Linear Regulator TO-263.AMS.AMS1083CM)		41.9	
3	U7	IC SRAM.SMD.32K*8.3.3V SOJ 28Pin.ELITMT.LP61L256AS-8		41.5	
4	CP2	POSCAP CAP.330uF.6.3V.20%.D4(7.3*4.3*3.8mm).40mOhm SMD.SANYO.6TPB330M		41.7	
5	D12	D Schottky.40V.1A.SMD.MOTOROLA.MBRS140T3		39.8	
6	D11	D Schottky.40V.1A.SMD.MOTOROLA.MBRS140T3		39.6	
7					
8					
9					
10					
11					
12					
13					
14					
15		The Room Temperature		23.2	

1. Operation Temperature ():

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