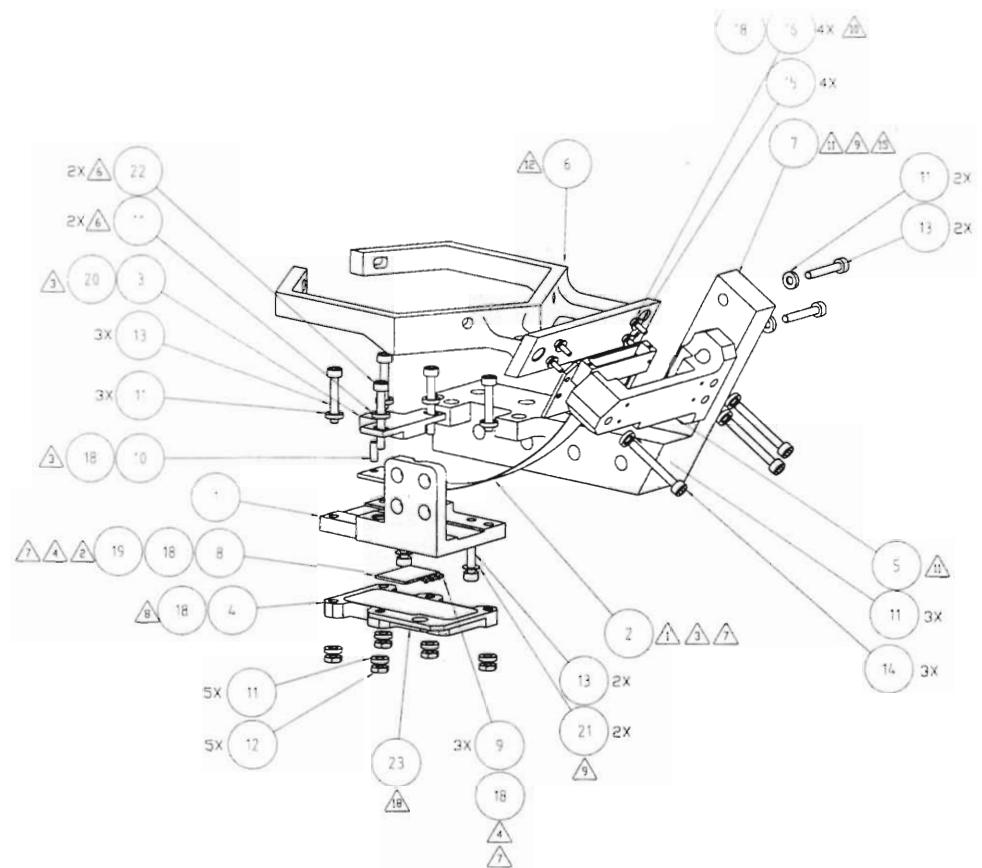


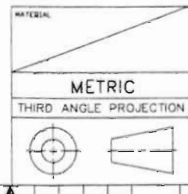
REV	DATE	DESCRIPTION	BY	CHKD	APPROV	SCALE	DATE
1		INITIAL RELEASE				SEE TITLE BLOCK	



- 18. SECURE ITEM 5, CONNECTOR MOUNT, TO ITEM 6, CONNECTOR FLANGE, USING ITEM 11, WASHER, AND ITEM 14, SCREW. TORQUE TO 140 NMM PER JPL SPEC E5317040.
- 19. SECURE ITEM 5, CONNECTOR MOUNT, TO ITEM 7, SUPPORT BRACKET, USING ITEM 11, WASHER, AND ITEM 13, SCREW. DO NOT STAKE SCREW HEADS.
- 10. SECURE ITEM 2, CABLE ASSEMBLY, TO ITEM 5, CABLE MOUNT, USING ITEM 15, WASHER, AND ITEM 16, SCREW. TORQUE TO 20 NMM PER JPL SPEC E5317040. STAKE SCREW HEADS WITH ITEM 18, 2216A/B EPOXY.
- 9. SECURE ITEM 1, ADAPTER, TO ITEM 7, SUPPORT BRACKET, USING ITEM 13, SCREW AND ITEM 23, WASHER. DO NOT STAKE SCREWS.
- 8. SECURE ITEM 4, COVER, TO ITEM 1, ADAPTER, USING ITEM 11, WASHER, ITEM 13, SCREW, AND ITEM 10, NUT. TORQUE TO 140 NMM PER JPL SPEC E5317040. STAKE NUTS WITH ITEM 18, 2216A/B EPOXY.
- 7. WIREBOND ITEM 2, CABLE ASSEMBLY, AND ITEM 9, THERMISTOR, TO ITEM 8, LOAD RESISTOR, USING ITEM 19, GOLD WIRE. PER ENGINEERING INSTRUCTION TO OBTAIN CIRCUIT SHOWN ON SHEET 3 - NOMINAL WIREBOND ARRANGEMENT SHOWN IN DETAIL A AND IS SUBJECT TO MODIFICATION.
- 6. SECURE ITEM 2, CABLE ASSEMBLY, TO ITEM 1, ADAPTER, USING ITEMS 3, CABLE CLAMP, ITEM 11, WASHER, AND ITEM 22, SCREW. TORQUE TO 140 NMM PER JPL SPEC E5317040. STAKE SCREW HEADS WITH ITEM 18, 2216A/B EPOXY.
- 5. APPLY ITEM 17, KAPTON TAPE, TO ITEM 1, ADAPTER ON INDICATED SURFACE.
- 4. BOND ITEM 8, LOAD RESISTOR, AND ITEM 9, THERMISTOR, 3X, TO ITEM 1, ADAPTER, USING ITEM 18, 2216A/B EPOXY.
- 3. BOND ITEM 10, PIN, TO ITEM 3, CABLE CLAMP, USING ITEM 18, 2216A/B EPOXY. BOND ITEM 2, CABLE ASSEMBLY, TO CABLE CLAMP USING ITEM 20, MS-907 EPOXY.
- 2. MIDDY ITEM 8, LOAD RESISTOR, IN ACCORDANCE WITH ENGINEERING INSTRUCTION TO CUT LENGTH TO APPROX. 1MM, LEAVING ONLY THE CENTER SECTION OF RESISTORS.
- 1. MODIFY ITEM 2, CABLE ASSEMBLY, BY REMOVING STAINLESS STEEL SPACERS ON BOTH SIDES OF THE WIREBOND CONNECTOR.

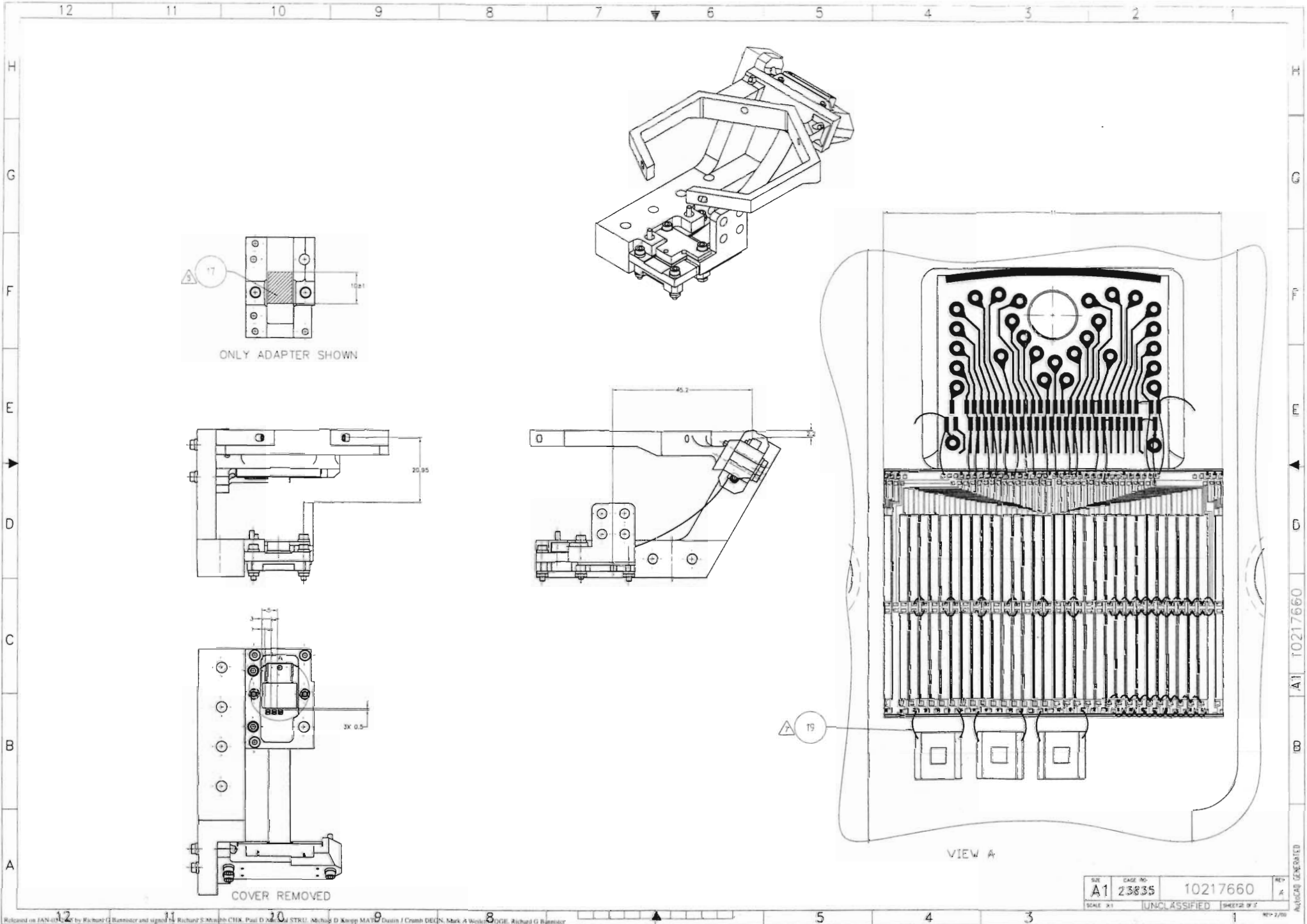
- 18. USING ITEM 23 INK, STAMP EXTERIOR OF ITEM 4 COVER WITH PART NUMBER AND SERIAL NUMBER CHARACTER HEIGHT TO BE .001 INCHES (APPROX).
- 17. SCREWS ARE NA0069-014 OR LONGER CUT TO 12.6 MM LENGTH.
- 16. 300K SECTION MASS: .26 GRAMS
MASS DOES NOT INCLUDE TEMPORARY SUPPORT BRACKET NOR 4X BUSS BAR CLAMP FASTENERS.
- 15. ITEM 7, BRACKET IS FOR TEMPORARY SUPPORT ONLY. REMOVE AFTER THERMAL CONTROL INSTALLATION.
- 14. SUGGESTED SOURCE OF SUPPLY:
PIC DESIGN
PRECISION INDUSTRIAL COMPONENTS CORP.
86 BENDON RD.
P.O. BOX 1004
MIDDLEBURY, CT 06762-1004
- 13. SUGGESTED SOURCE OF SUPPLY:
HALLER-BEEMAN
5020 SANTA RITA RD
EL SOBRANTE, CA 94803
PHONE: (510) 243-6606

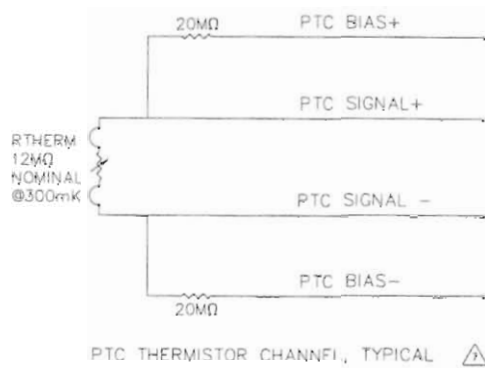
REV	DATE	DESCRIPTION	BY	CHKD	APPROV	SCALE	DATE
AR	23					PERMANENT MARKING INK BLACK	B5502673
2	22					SCREW, SHC, M1.6X0.35 X 12.6 LONG	NA0069
2	21	10217701				TEFLON WASHER, 0.127 THICK	
AR	19					MILLER-STEPH 907	
AR	19					EPOXY, NON-CONDUCTIVE	B5518425
AR	18					0.0025" GOLD WIRE	B5502533
AR	17					EPOXY	
AR	17					KAPTON TAPE	
4	16	0P JN9	1580332-1			SCREW, 1MM	TYCO/NANONICS 303 CRES
4	15	W00CE				WASHER, FLAT, #00	JJ MORRIS 303 CRES
3	14	NA0069-016014				SHCS, M1.6X0.35 X 14	
7	13	NA0069-016010				SHCS, M1.6X0.35 X 10	
5	12	934-A2 M1.6X0.35				NUT, M1.6X0.35	DIN 934 A2 CRES
15	11	ST12259-016				WASHER, M1.6	
1	10	00147	MDP2-2			PIN, 1.5MM X 4MM	303 CRES
3	9	3WSPS	NT0-F			THERMISTOR, SAPPHIRE MOUNTED	HALLER-BEEMAN
1	8	10209838-1				LOAD RESISTOR	
1	7	10217693-1				SUPPORT BRACKET	
1	6	10210997-1				FLANGE, CONNECTOR	
1	5	10217697-1				MOUNT, CABLE	
1	4	10210998-1				COVER	
1	3	10209844-2				CABLE CLAMP	
1	2	10209815-1				CABLE ASSEMBLY, CENTER	
1	1	10217666-1				ADAPTER	



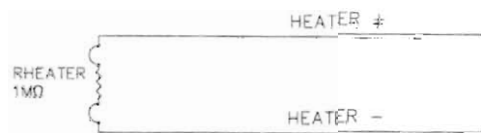
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS	CONTRACT NO.	124808
METRIC <td>LINEAR TOLERANCES:</td> <td colspan="2">JET PROPULSION LABORATORY</td>	LINEAR TOLERANCES:	JET PROPULSION LABORATORY	
THIRD ANGLE PROJECTION	0-4 ± 0.1	CALIFORNIA INSTITUTE OF TECHNOLOGY	
	OVER 6-30 ± 0.2	PASADENA, CA 91109	
	OVER 30-120 ± 0.3	RELEASED THROUGH EDWG	
	OVER 125-215 ± 0.5	THERMAL CONTROL, SPIRE	
	OVER 315-1000 ± 0.8	DATE	
	OVER 1000 ± 1.2	APP'D	
	ANGULAR TOLERANCES: ± 0.5°	DATE	
	MACHINE FINISH (MICROMETERS)	OWN	
	DO NOT SCALE DRAWING	D CRUMS	
	INTERPRET DWG PER ASME Y14.100M	CHK	
		STRUT	
		MNTL	
		SURT	
		ENGR	
		DPC	

SIZE	CAGE NO	REV
A1	23835	10217660
SCALE: 2:1	UNCLASSIFIED	SHEET 1 OF 3





PTC THERMISTOR CHANNEL, TYPICAL \triangle



PTC HEATER, TYPICAL \triangle

NC = NOT CONNECTED

IDENTICAL SIGNALS ARE COMBINED INTERNALLY AT 300mK END OF KAPTON CABLE

IDENTICAL SIGNALS ARE EXPECTED TO BE TIED TOGETHER AT MATING NANONICS CONNECTOR

RESISTANCES ARE $\pm 40\%$

\triangle NANONICS CONNECTOR
STM051M6SN

PIN	FUNCTION
1	REDUNDANT HEATER+
2	NC
3	NC
4	NC
5	REDUNDANT HEATER-
6	REDUNDANT HEATER-
7	NC
8	NC
9	NC
10	PTC CH. 1 SIGNAL+
11	PTC CH. 1 BIAS+
12	NC
13	PTC CH. 1 BIAS-
14	PTC CH. 1 SIGNAL-
15	NC
16	PTC CH. 2 SIGNAL+
17	PTC CH. 2 BIAS+
18	PTC CH. 2 BIAS-
19	PTC CH. 2 SIGNAL-
20	NC
21	PTC CH. 3 SIGNAL+
22	PTC CH. 3 BIAS+
23	PTC CH. 3 BIAS-
24	PTC CH. 3 SIGNAL-
25	REDUNDANT HEATER+
26	PRIME HEATER+
27	NC
28	NC
29	NC
30	NC
31	PRIME HEATER-
32	PRIME HEATER-
33	NC
34	PTC CH. 1 SIGNAL+
35	PTC CH. 1 BIAS+
36	NC
37	PTC CH. 1 BIAS-
38	PTC CH. 1 SIGNAL-
39	NC
40	PTC CH. 2 SIGNAL+
41	PTC CH. 2 BIAS+
42	NC
43	PTC CH. 2 BIAS-
44	PTC CH. 2 SIGNAL-
45	NC
46	PTC CH. 3 SIGNAL+
47	PTC CH. 3 BIAS+
48	PTC CH. 3 BIAS-
49	PTC CH. 3 SIGNAL-
50	PRIME HEATER+
51	300mK CHASSIS GND