



THERMISTORS
(THERMALLY SENSITIVE RESISTORS)
BASED ON TYPE 34TD25A
ESCC Detail Specification No. 4006/002

ISSUE 1
October 2002



	ESCC Detail Specification		PAGE ii ISSUE 1
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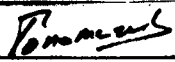
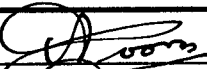

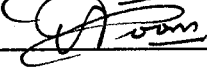
**THERMISTORS
(THERMALLY SENSITIVE RESISTORS)**

BASED ON TYPE 34TD25A

ESA/SCC Detail Specification No. 4006/002



**space components
coordination group**

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Rev. 'A'

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ISSUE 2

DOCUMENTATION CHANGE NOTICE

Rev. Letter	Rev. Date	Reference	CHANGE Item	Approved DCR No.
		This Issue supersedes Issue 1 and incorporates all modifications defined in Revisions 'A', 'B' and 'C' to Issue 1 and the changes agreed in the following DCR's:-		
		Cover Page		None
		DCN		None
		Table 1(a)	: Title amended and Column 1 title amended	23753
			: Temperature Tolerance for -5 to -1 °C added	221288
		Table 1(b)	: No. 3, Characteristic amended to "Current"	23753
		Figure 1	: Figure 1 reference added	23753
		Figures 2(a), (b)	: Imperial dimensions deleted	23753
		Para. 2	: Reference to "MIL-STD-1276" deleted and others renumbered	21025
		Para. 4.1	: Second paragraph added	21019
		Para. 4.2.1	: New paragraph added for "Deviations for Special In-process Controls" and subsequent paragraphs renumbered to 4.2.2 to 4.2.5	23753
		Para. 4.2.3	: Title amended	23753
		Para. 4.2.4	: Title amended	23753
		Para. 4.3.1	: Paragraph standardised	23753
		Para. 4.3.3	: "Section 9" amended to "Para. 9.13"	23753
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		Para. 4.5.1	: Paragraph standardised	23753
		Para. 4.5.3	: Paragraph standardised	23753
		Para. 4.5.4	: Paragraph standardised	23753
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		Para. 4.6.3	: Text deleted and replaced with "Not applicable."	23753
		Para. 4.7.3	: Text deleted and replaced with "Not applicable."	23753
		Table 2	: Columns standardised and Remarks column added	23753
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			: No. 7 corrected to No. 1 and No. 8 corrected to No. 7	23753
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		Table 5	: No 2, Symbol " P_{tot} " corrected to " P_D "	23753
			: , in Conditions, "TBD" deleted and "Note 1" added	221288
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		Figure 5	: Figure 5 reference added	23753
		Para. 4.8	: Title amended	23753
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		Para. 4.8.3	: Title amended, first sentence amended	23753
		Table 6	: Format amended and corrected	23753
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		P13. Para. 4.3.3	: Applied Force amended	221386



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APPENDICES (Applicable to specific Manufacturers only)

None.

**1. GENERAL****1.1 SCOPE**

This specification details the ratings, physical and electrical characteristics, test and inspection data for Thermistors (Thermally Sensitive Resistors), based on Type 34TD25A. It shall be read in conjunction with ESA/SCC Generic Specification No. 4005, the requirements of which are supplemented herein.

1.2 TYPE VARIANTS

Variants of the basic type thermistors specified herein, which are also covered by this specification, are given in Table 1(a).

1.3 MAXIMUM RATINGS

The maximum ratings, which shall not be exceeded at any time during use or storage, applicable to the thermistors specified herein, are as scheduled in Table 1(b).

1.4 PARAMETER DERATING INFORMATION (FIGURE 1)

Not applicable.

1.5 PHYSICAL DIMENSIONS

The physical dimensions of the thermistors specified herein are shown in Figure 2.

1.6 FUNCTIONAL DIAGRAM

The functional diagram for the thermistors specified herein is shown in Figure 3.

1.7 HIGH TEMPERATURE TEST PRECAUTIONS

For tin-lead plated or solder-dipped lead finish, all tests to be performed at a temperature that exceeds +125°C shall be carried out in a 100% inert atmosphere.

2. APPLICABLE DOCUMENTS

The following documents form part of this specification and shall be read in conjunction with it:-

- (a) ESA/SCC Generic Specification No. 4006, Thermistors (Resistors, Thermally Sensitive).
- (b) MIL-STD-105, Sampling Procedures and Tables for Inspections by Attributes.

3. TERMS, DEFINITIONS, ABBREVIATIONS, SYMBOLS AND UNITS

For the purpose of this specification, the terms, definitions, abbreviations, symbols and units specified in ESA/SCC Basic Specification No. 21300 shall apply.

**TABLE 1(a) - R/T CHARACTERISTICS, VARIANT 01**

(1) Temperature (°C)	(2) Temperature Tolerance (± °C)	(3) Resistance (Ω)	(4) Resistance Tolerance (±%)
-55	0.48	408.34 k	3.3
-54		378.90 k	
-53		351.77 k	
-52		326.75 k	
-51		303.69 k	
-50	0.45	282.40 k	3.0
-49		262.73 k	
-48		244.57 k	
-47		227.78 k	
-46		212.25 k	
-45	0.43	197.88 k	2.8
-44		186.57 k	
-43		172.25 k	
-42		160.82 k	
-41		150.23 k	
-40	0.41	140.40 k	2.5
-39		131.28 k	
-38		122.80 k	
-37		114.93 k	
-36		107.61 k	
-35	0.39	100.81 k	2.3
-34		94.48 k	
-33		88.58 k	
-32		83.09 k	
-31		77.97 k	
-30	0.37	73.21 k	2.2
-29		68.76 k	
-28		64.61 k	
-27		60.73 k	
-26		57.12 k	
-25	0.35	53.74 k	2.0
-24		50.58 k	
-23		47.62 k	
-22		44.86 k	
-21		42.27 k	
-20	0.32	39.85 k	1.8
-19		37.58 k	
-18		35.45 k	
-17		38.47 k	
-16		31.60 k	



TABLE 1(a) - R/T CHARACTERISTICS, VARIANT 01 (CONTINUED)

(1) Temperature (°C)	(2) Temperature Tolerance (± °C)	(3) Resistance (Ω)	(4) Resistance Tolerance (± %)
-15	0.29	29.85 k	1.6
-14		28.20 k	
-13		26.66 k	
-12		25.21 k	
-11		23.84 k	
-10	0.26	22.56 k	1.4
-9		21.36 k	
-8		20.226 k	
-7		19.159 k	
-6		18.155 k	
-5	0.23	17.210 k	1.2
-4		16.320 k	
-3		15.480 k	
-2		14.689 k	
-1		13.943 k	
0	0.20	13.240 k	1.0
1		12.575 k	
2		11.949 k	
3		11.357 k	
4		10.797 k	
5	0.20	10.269 k	1.0
6		9.769 k	
7		9.297 k	
8		8.850 k	
9		8.427 k	
10	0.20	8.027 k	0.94
11		7.648 k	
12		7.289 k	
13		6.949 k	
14		6.627 k	
15	0.20	6.321 k	0.89
16		6.032 k	
17		5.757 k	
18		5.496 k	
19		5.249 k	
20	0.20	5.018 k	0.87
21		4.800 k	
22		4.588 k	
23		4.386 k	
24		4.186 k	

**TABLE 1(a) - R/T CHARACTERISTICS, VARIANT 01 (CONTINUED)**

(1) Temperature (°C)	(2) Temperature Tolerance (± °C)	(3) Resistance (Ω)	(4) Resistance Tolerance (± %)
25	0.20	4.000 k	0.84
26		3.838 k	
27		3.673 k	
28		3.516 k	
29		3.367 k	
30	0.20	3.225 k	0.82
31		3.089 k	
32		2.960 k	
33		2.837 k	
34		2.720 k	
35	0.20	2.608 k	0.81
36		2.501 k	
37		2.400 k	
38		2.303 k	
39		2.210 k	
40	0.20	2.122 k	0.76
41		2.038 k	
42		1.9569 k	
43		1.8800 k	
44		1.8064 k	
45	0.20	1736.2	0.75
46		1669.0	
47		1604.8	
48		1543.4	
49		1484.6	
50	0.20	1428.4	0.74
51		1374.6	
52		1323.1	
53		1273.8	
54		1226.6	
55	0.20	1181.4	0.73
56		1138.1	
57		1096.6	
58		1056.8	
59		1018.6	
60	0.20	982.1	0.70
61		947.0	
62		913.3	
63		881.1	
64		850.0	



TABLE 1(a) - R/T CHARACTERISTICS, VARIANT 01 (CONTINUED)

(1) Temperature (°C)	(2) Temperature Tolerance (± °C)	(3) Resistance (Ω)	(4) Resistance Tolerance (± %)
65	0.20	820.3	0.67
66		791.8	
67		764.4	
68		738.1	
69		712.8	
70	0.20	688.5	0.65
71		665.2	
72		642.7	
73		621.1	
74		600.4	
75	0.20	580.5	0.63
76		561.3	
77		542.8	
78		525.1	
79		508.0	
80	0.20	491.5	0.61
81		475.0	
82		459.0	
83		444.4	
84		430.4	
85	0.20	416.8	0.59
86		403.8	
87		391.2	
88		379.1	
89		367.4	
90	0.20	356.1	0.59
91		345.3	
92		334.8	
93		324.7	
94		314.9	
95	0.20	305.5	0.58
96		296.4	
97		287.7	
98		279.2	
99		271.1	
100	0.20	263.2	0.57
101		255.5	
102		248.2	
103		241.0	
104		234.2	



TABLE 1(a) - R/T CHARACTERISTICS, VARIANT 01 (CONTINUED)

(1) Temperature (°C)	(2) Temperature Tolerance (± °C)	(3) Resistance (Ω)	(4) Resistance Tolerance (± %)
105	0.28	227.5	0.78
106		221.1	
107		214.9	
108		208.9	
109		203.1	
110	0.36	197.5	0.93
111		192.0	
112		186.8	
113		181.7	
114		176.7	
115	0.44	172.0	1.2
116		167.3	
117		162.9	
118		158.5	
119		154.3	
120	0.52	150.3	1.3
121		146.3	
122		142.5	
123		138.8	
124		135.2	
125	0.60	131.7	1.5
126		128.4	
127		125.1	
128		121.9	
129		118.8	
130	0.64	115.9	1.6
131		113.0	
132		110.2	
133		107.4	
134		104.8	
135	0.68	102.2	1.7
136		99.7	
137		97.3	
138		94.9	
139		92.7	
140	0.72	90.4	1.8
141		88.3	
142		86.2	
143		84.1	
144		82.2	



TABLE 1(a) - R/T CHARACTERISTICS, VARIANT 01 (CONTINUED)

(1) Temperature (°C)	(2) Temperature Tolerance (± °C)	(3) Resistance (Ω)	(4) Resistance Tolerance (± %)
145	0.76	80.2	1.9
146		78.4	
147		76.6	
148		74.8	
149		73.1	
150	0.80	71.4	2.0

TABLE 1(b) - MAXIMUM RATINGS

No.	CHARACTERISTICS	SYMBOL	MAXIMUM RATINGS	UNIT	REMARKS
1	Resistance Range	R	Note 1	Ω	
2	Resistance Tolerance	ΔR	Note 2	%	
3	Current	I _M	29	mA	
4	Operating Temperature Range	T _{op}	- 55 to + 150	°C	
5	Storage Temperature Range	T _{stg}	- 55 to + 200	°C	
6	Soldering Temperature	T _{sol}	+ 245	°C	Note 3

NOTES

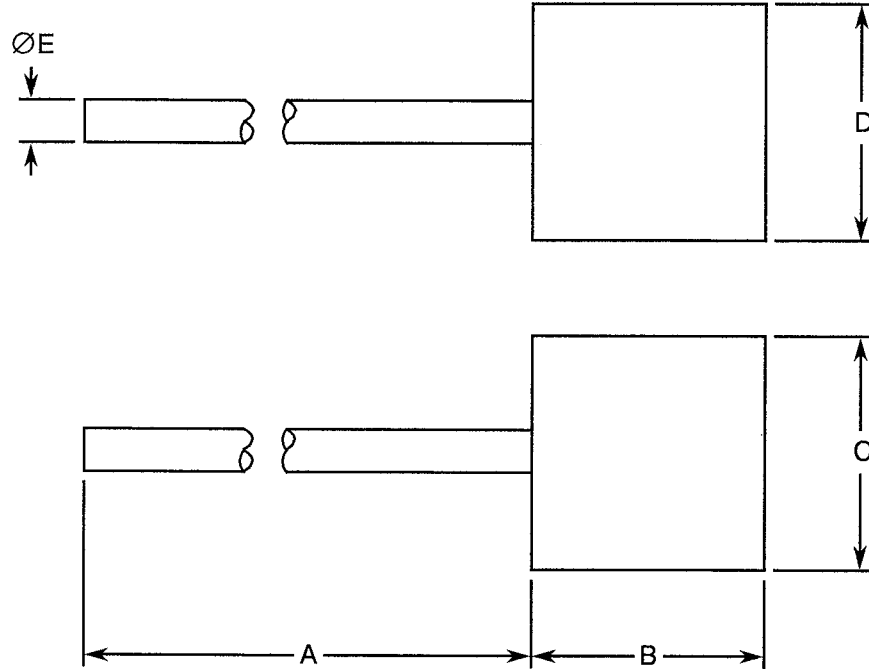
1. See Column 3 of Table 1(a).
2. See Column 4 of Table 1(a).
3. Duration 10 seconds maximum at a distance of not less than 10mm from the device body and the same lead shall not be resoldered until 3 minutes have elapsed.

FIGURE 1 - PARAMETER DERATING INFORMATION

Not applicable.





FIGURE 2 - PHYSICAL DIMENSIONS



SYMBOL	MILLIMETRES	
	MIN.	MAX.
A	50.80	-
B	1.78	2.29
C	1.78	2.29
D	-	2.10
ØE	0.13	0.18

FIGURE 3 - FUNCTIONAL DIAGRAM



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4. REQUIREMENTS

4.1 GENERAL

The complete requirements for procurement of the thermistors specified herein are stated in this specification and ESA/SCC Generic Specification No. 4006 for Thermistors (Resistors, Thermally Sensitive). Deviations from the Generic Specification, applicable to this specification only, are listed in Para. 4.2.

Deviations from the applicable Generic Specification and this Detail Specification, formally agreed with specific Manufacturers on the basis that the alternative requirements are equivalent to the ESA/SCC requirements and do not affect the components' reliability, are listed in the appendices attached to this specification.

4.2 DEVIATIONS FROM GENERIC SPECIFICATION

4.2.1 Deviations from Special In-process Controls

None.

4.2.2 Deviations from Final Production Tests (Chart II)

None.

4.2.3 Deviations from Burn-in and Electrical Measurements (Chart III)

None.

4.2.4 Deviations from Qualification Tests (Chart IV)

None.

4.2.5 Deviations from Lot Acceptance Tests (Chart V)

None.

4.3 MECHANICAL REQUIREMENTS

4.3.1 Dimension Check

The dimensions of the thermistors specified herein shall be verified in accordance with the requirements set out in Para. 9.4 of ESA/SCC Generic Specification No. 4006 and they shall conform to those shown in Figure 2 of this specification.

4.3.2 Weight

The maximum weight of the thermistors specified herein shall be 0.1 grammes.

4.3.3 Terminal Strength

The requirements for terminal strength testing are specified in Para. 9.13 of ESA/SCC Generic Specification No. 4006. The test conditions shall be as follows:-

Applied Force: 2.2N.

Duration: 5 seconds.



4.4 MATERIALS AND FINISHES

The materials and finishes shall be as specified herein. Where a definite material is not specified, a material which will enable the thermistors specified herein to meet the performance requirements of this specification shall be used. Acceptance or approval of any constituent material does not guarantee acceptance of the finished product.

4.4.1 Case

The case material shall be epoxy.

4.4.2 Lead Material and Finish

The lead material shall be Type 'A' with Type '3' finish in accordance with the requirements of ESA/SCC Basic Specification No. 23500.

4.5 MARKING

4.5.1 General

The marking of all components delivered to this specification shall be in accordance with the requirements of ESA/SCC Basic Specification No. 21700 and the following paragraphs. When the component is too small to accommodate all of the marking specified, as much as space permits shall be marked and the marking information, in full, shall accompany the component in its primary package.

The information to be marked and the order of precedence, shall be as follows:-

- (a) Lead Identification.
- (b) The SCC Component Number.
- (c) Traceability Information.

4.5.2 Lead Identification

Lead identification shall be as shown in Figure 2.

4.5.3 The SCC Component Number

The SCC Component Number shall be constituted and marked as follows:

Detail Specification Number _____ 400600201B
Type Variant _____
Testing Level (B or C, as applicable) _____

4.5.4 Traceability Information

Each component shall be marked in respect of traceability information in accordance with the requirements of ESA/SCC Basic Specification No. 21700.



4.6 ELECTRICAL MEASUREMENTS

4.6.1 Electrical Measurements at Room Temperature

The parameters to be measured at room temperature are scheduled in Table 2. Unless otherwise specified, the measurements shall be performed at $T_{amb} = +25 \pm 3$ °C.

4.6.2 Electrical Measurements at High and Low Temperatures

The parameters to be measured at high and low temperatures are scheduled in Table 3.

4.6.3 Circuits for Electrical Measurements (Figure 4)

Not applicable.

4.7 BURN-IN TESTS

4.7.1 Parameter Drift Values

The parameter drift values applicable to burn-in are specified in Table 4 of this specification. Unless otherwise stated, measurements shall be performed at $T_{amb} = +25 \pm 3$ °C. The parameter drift values (Δ) applicable to the parameters scheduled, shall not be exceeded. In addition to these drift value requirements for a given parameter, the appropriate limit value specified in Table 2 shall not be exceeded.

4.7.2 Conditions for Burn-in

The requirements for burn-in are specified in Section 7 of ESA/SCC Generic Specification No. 4006. The conditions for burn-in shall be as specified in Table 5 of this specification.

4.7.3 Electrical Circuits for Burn-in (Figure 5)

Not applicable.

**TABLE 2 - ELECTRICAL MEASUREMENTS AT ROOM TEMPERATURE - d.c. PARAMETERS**

No.	CHARACTERISTICS	SYMBOL	ESA/SCC 4006 TEST CONDITION	LIMITS		UNIT	REMARKS
				MIN.	MAX.		
1	Zero Power Resistance at +25 ± 3 °C	R _Z	Para. 9.3.1.1	3.48	4.62	kΩ	
2	Dissipation Constant in Still Air	K _{DISS}	Para. 9.3.1.2	1.0	-	mW/°C	Note 1
3	Dissipation Constant in Agitated Oil	K _{DISS}	Para. 9.3.1.2	1.5	-	mW/°C	Note 2
4	Thermal Time Constant in Still Air	K _H	Para. 9.3.1.3	-	125	s	Note 1
5	Thermal Time Constant in Agitated Oil	K _H	Para. 9.3.1.3	-	30	s	Note 2
6	Insulation Resistance	R _i	Para. 9.3.1.4	100	-	kΩ	Note 1

NOTES

1. If more than 20 devices have to be measured, the test shall be performed on a sample basis in accordance with Level II, Table IIA, AQL = 1.0 of MIL-STD-105.
2. To be performed only when specified on the Purchase Order.

TABLE 3 - ELECTRICAL MEASUREMENTS AT HIGH AND LOW TEMPERATURES

No.	CHARACTERISTICS	SYMBOL	ESA/SCC 4006 TEST CONDITION	LIMITS		UNIT	REMARKS
				MIN.	MAX.		
1	Zero Power Resistance at each specified temperature, over operating range	R _Z	Para. 9.3.1.1	Note 1		Ω	Note 2
7	Temperature Coefficient	TC	-	-	- 4.4	%/°C	Note 3

NOTES

1. See Column 1 of Table 1(a) for specified temperatures, Column 3 for resistance values, and Column 4 for tolerances.
2. The test shall be performed in a non-conductive liquid medium.
3. To be calculated from the measurements obtained by Test 1.

**FIGURE 4 - CIRCUITS FOR ELECTRICAL MEASUREMENTS**

Not applicable.

TABLE 4 - PARAMETER DRIFT VALUES

No.	CHARACTERISTICS	SYMBOL	SPEC. AND/OR TEST METHOD	TEST CONDITIONS	CHANGE LIMITS (Δ)	UNIT
1	Zero Power Resistance at $+25 \pm 3$ °C	R_z	As per Table 2	As per Table 2	± 0.2	%

TABLE 5 - CONDITIONS FOR BURN-IN AND OPERATING LIFE TESTS

No.	CHARACTERISTICS	SYMBOL	CONDITION	UNIT
1	Ambient Temperature	T_{amb}	$+25(+5-0)$	°C
2	Power Dissipation	P_D	Note 1	mW

NOTES

1. Power is applied to produce a case temperature of $T_{case} = 105 \pm 2$ °C.

FIGURE 5 - ELECTRICAL CIRCUIT FOR BURN-IN AND OPERATING LIFE TESTS

Not applicable.



- 4.8 ENVIRONMENTAL AND ENDURANCE TESTS (CHARTS IV AND V OF ESA/SCC GENERIC SPECIFICATION No. 4006)
- 4.8.1 Measurements and Inspections on Completion of Environmental Tests
The parameters to be measured and inspections to be performed on completion of environmental tests are scheduled in Table 2. Unless otherwise stated, the measurements shall be performed at $T_{amb} = +25 \pm 3 \text{ }^{\circ}\text{C}$.
- 4.8.2 Measurements and Inspections at Intermediate Points during Endurance Tests
The parameters to be measured and inspections to be performed at intermediate points during endurance tests are scheduled in Table 6. Unless otherwise stated, the measurements shall be performed at $T_{amb} = +25 \pm 3 \text{ }^{\circ}\text{C}$.
- 4.8.2 Measurements and Inspections on Completion of Endurance Tests
The parameters to be measured and inspections to be performed on completion of endurance tests are scheduled in Table 6. Unless otherwise stated, the measurements shall be performed at $T_{amb} = +25 \pm 3 \text{ }^{\circ}\text{C}$.
- 4.8.4 Conditions for Operating Life Tests (Part of Endurance Testing)
The requirements for operating life testing are specified in Section 9 of ESA/SCC Generic Specification No. 4006. The conditions for operating life testing shall be as specified in Table 5 for the burn-in test.
- 4.8.5 Electrical Circuits for Operating Life Tests
Not applicable.



TABLE 6 - MEASUREMENTS AND INSPECTIONS ON COMPLETION OF ENVIRONMENTAL TESTS AND AT INTERMEDIATE POINTS AND ON COMPLETION OF ENDURANCE TESTING

No.	ESA/SCC GENERIC SPEC. No. 4006		MEASUREMENTS AND INSPECTIONS		SYMBOL	LIMITS		UNIT	
	ENVIRONMENTAL AND ENDURANCE TESTS (1)	TEST METHOD AND CONDITIONS	IDENTIFICATION	CONDITIONS		MIN.	MAX.		
01	Thermal Shock	Para. 9.2	-	-	-	-	-	-	
02	Shock (Specified Pulse)	Para. 9.7	Initial Measurements	Table 2 Item 1	R_z	Table 2 Item 1		Ω	
			Zero Power Resistance During Shock Intermittent Contact	Open or Short Circuiting	-	-	-	-	
			After Shock	Table 2 Item 1	$\Delta R_z/R_z$	-0.2	+0.2	%	
03	Vibration	Para. 9.8	Initial Measurements	Table 2 Item 1	R_z	Table 2 Item 1		Ω	
			Zero Power Resistance During Vibration Intermittent Contact	Open or Short Circuiting	-	-	-	-	
			After Vibration	Table 2 Item 1	$\Delta R_z/R_z$	-0.2	+0.2	%	
04	Immersion	Para. 9.9	Visual Examination	Evidence of damage	-	-	-	-	
			During Test	Visual Examination	Evidence of breakdown or flashover	-	-	-	-
			After Test	Visual Examination	Evidence of damage, arcing or breakdown	-	-	-	-
05	Resistance to Soldering Heat	Para. 9.11	After Test	After a recovery period of 24 ± 4 hrs	R_z	Table 2 Item 1		Ω	
06	Moisture Resistance	Para. 9.12	Initial Measurements	Not less than 1.5 hrs after removal from drying oven	R_z	Table 2 Item 1		Ω	
			Zero Power Resistance	Table 2 Item 1	-	-	-	-	
			Final Measurements	Within 24 hrs of removal from 1.5 to 3.5 hr conditioning	$\Delta R_z/R_z$	-0.2	+0.2	%	
07	Terminal Strength	Para. 9.13	Zero Power Resistance Change	Table 2 Item 1	$\Delta R_z/R_z$	-0.2	+0.2	%	
			Insulation Resistance	Table 2 Item 2	R_i	100	-	M Ω	
			Visual Examination	Evidence of damage	-	-	-	-	

NOTES

1. The tests in this Table refer to either Chart IV or V and shall be used as applicable.



TABLE 6 - MEASUREMENTS AND INSPECTIONS ON COMPLETION OF ENVIRONMENTAL TESTS AND AT INTERMEDIATE POINTS AND ON COMPLETION OF ENDURANCE TESTING (CONT'D)

No.	ESA/SCC GENERIC SPEC. No. 4006		MEASUREMENTS AND INSPECTIONS		SYMBOL	LIMITS		UNIT
	ENVIRONMENTAL AND ENDURANCE TESTS (1)	TEST METHOD AND CONDITIONS	IDENTIFICATION	CONDITIONS		MIN.	MAX.	
09	Operating Life	Para. 9.14	Initial Measurements	Table 2 Item 1	R_Z	Table 2 Item 1		Ω
			Zero Power Resistance	Table 2 Item 1	$\Delta R_Z/R_Z$	-0.5	+0.5	%
			Intermediate Measurements	Table 2 Item 2	R_i	100	-	$M\Omega$
			Zero Power Resistance Change	Table 2 Item 1	$\Delta R_Z/R_Z$	-0.5	+0.5	%
			Insulation Resistance	Table 2 Item 2	R_i	100	-	$M\Omega$
10	Short Time Load	Para. 9.15	Zero Power Resistance Visual Examination	Table 2 Item 1 Evidence of arcing, burning or charring	R_Z -	Table 2 Item 1 -	Ω -	
11	Low Temperature Storage	Para. 9.16	Initial Measurements	Table 2 Item 1	R_Z	Table 2 Item 1		Ω
			Final Measurements	Table 2 Item 1	$\Delta R_Z/R_Z$	-0.2	+0.2	%
			Zero Power Resistance Change Visual Examination	Evidence of damage	-	-	-	-
12	High Temperature Storage	Para. 9.17	Initial Measurements	Table 2 Item 1	R_Z	Table 2 Item 1		Ω
			Zero Power Resistance	Table 2 Item 1	$\Delta R_Z/R_Z$	-0.5	+0.5	%
			Intermediate Measurements	Table 2 Item 2	R_i	100	-	$M\Omega$
			Zero Power Resistance Change	Table 2 Item 1	$\Delta R_Z/R_Z$	-0.5	+0.5	%
			Insulation Resistance	Table 2 Item 2	R_i	100	-	$M\Omega$
13	Solderability	Para. 9.18	-	-	-	-	-	

NOTES

1. The tests in this Table refer to either Chart IV or V and shall be used as applicable.