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RELAYS, ELECTROMAGNETICS, NON-LATCHING 28 VDC, 2A, 2PDT, HALF-SIZE CRYSTAL CAN

ESCC Detail Specification No. 3601/003

ISSUE 3 September 2004



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DCR No.	CHANGE DESCRIPTION
DCR No.	CHANGE DESCRIPTION Specification upissued to incorporate technical and editorial changes per DCR.



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FIGUE	<u>RES</u>	
1 2 3 4 5(a) 5(b)	Not applicable Physical Dimensions Circuit Schematic Circuits for Electrical Measurements Electrical Circuits for Screening Electrical Circuits for Operating Life Tests	N/A 7 15 N/A N/A N/A

APPENDICES (Applicable to specific Manufacturers only) None.



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1. GENERAL

1.1 SCOPE

This specification details the ratings, physical and electrical characteristics, test and inspection data for a Relay, Electromagnetic, Non-Latching, 28Vdc, 2A, 2PDT, in a half-size crystal can. It shall be read in conjunction with ESCC Generic Specification No. 3601, the requirements of which are supplemented herein.

1.2 COMPONENT TYPE VARIANTS

Variants of the basic type relays 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 relays 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 relays specified herein are shown in Figure 2.

1.6 <u>CIRCUIT SCHEMATIC</u>

The circuit schematic, showing lead identification etc. for the relays specified herein, is shown in Figure 3.

2. APPLICABLE DOCUMENTS

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

- (a) ESCC Generic Specification No. 3601 for Relays, Electromagnetic, Non-latching.
- (b) MIL-STD-202, Test Methods for Electronic and Electrical Component Parts.

3. TERMS, DEFINITIONS, ABBREVIATIONS, SYMBOLS AND UNITS

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



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TABLE 1(a) - TYPE VARIANTS

VARIANT	DESCRIPTION	FIGURE
01	Relay with Plug-in Terminals and Plain Case	2(a)
02	Relay with Plug-in Terminals and Horizontal Shoulder Brackets	2(b)
03	Relay with Solderable Hook-end Terminals and Vertical Shoulder Brackets	2(c)
04	Relay with Plug-in Terminals and Vertical Shoulder Brackets	2(d)
05	Relay with Solderable Hook-end Terminals and Plain Case	2(e)
06	Relay with Solderable Hook-end Terminals and Horizontal Shoulder Brackets	2(f)
07	Relay with Plug-in Terminals and Horizontal Shoulder Brackets (4 Holes)	2(g)
08	Relay with Solderable Hook-end Terminals and Horizontal Shoulder Brackets (4 Holes)	2(h)

TABLE 1(b) - MAXIMUM RATINGS

No.	CHARACTERISTICS	SYMBOL	MAXIMUM RATING	UNIT	REMARKS
1	Rated Coil Voltage:- 26V 12V 6V	V _{CR}	26.5 12 6.0	Vdc	
2	Coil Voltage Range: - 26V 12V 6V	V _{CR}	25 to 32 11 to 15 5.5 to 7.5	Vdc	
3	Rated Contact Current Resistive Load	I _{CR}	2.0	Α	28Vdc resistive Note 1
4	Overload Current Resistive	l _{overl}	4.0	Α	28Vdc resistive See Table 6
5	Rated Contact Current Inductive Load	l _{CL}	0.4	Α	28Vdc inductive Inductance 0.32 Henry Note 1
6	Contact Resistance	R _C	50	$m\Omega$	
7	High Temperature	T _{amb}	+ 125	°C	
8	Low Temperature	T _{amb}	- 65	°C	
9	Soldering Temperature	T _{sol}	+ 260	°C	Note 2

NOTES

- 1. Relays should not be used in change over-mode where the potential difference between stationary contacts is greater than 10V and the switched current is greater than 0.1A.
- 2. Duration 10 seconds maximum at a distance of not less than 3.0mm from the device body and the same lead shall not be resoldered until 3 minutes have elapsed.

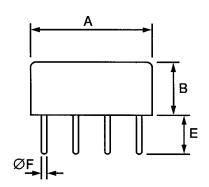


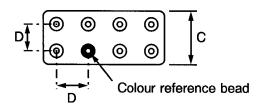
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SYMBOL	MILLIMETRES		
STIVIBOL	MIN.	MAX.	
Α	-	20.57	
В	-	10.41	
С	-	10.41	
D	4.98	5.18	
E	4.24	5.33	
ØF	0.66	0.86	

FIGURE 2 - PHYSICAL DIMENSIONS

FIGURE 2(a) - VARIANT 01, RELAY WITH PLUG-IN TERMINALS AND PLAIN CASE





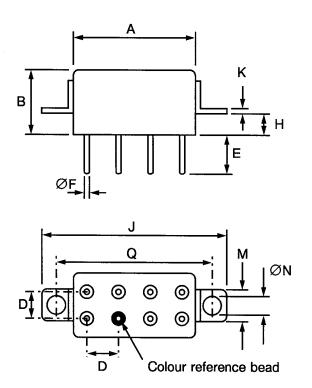


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SYMBOL	MILLIMETRES		
STIVIBOL	MIN.	MAX.	
Α	-	20.57	
В	-	10.41	
D	4.98	5.18	
E	4.24	5.33	
ØF	0.66	0.86	
Н	3.05	3.30	
J	-	32.90	
K	0.51	0.76	
М	6.22	8.10	
ØN	3.00	3.55	
Q	26.60	27.40	

FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

FIGURE 2(b) - VARIANT 02, RELAY WITH PLUG-IN TERMINALS AND HORIZONTAL SHOULDER BRACKETS



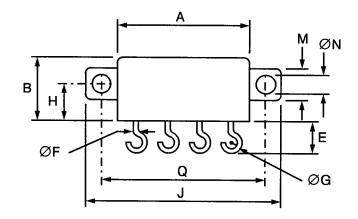


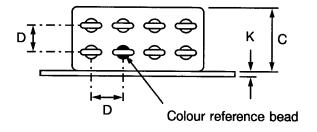
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SYMBOL	MILLIMETRES		
STIVIBUL	MIN.	MAX.	
Α	-	20.57	
В	-	10.41	
С	-	10.41	
D	4.98	5.18	
E	4.11	4.83	
ØF	0.66	0.86	
ØG	-	1.80	
Н	5.97	6.73	
J	-	32.64	
К	0.38	0.80	
М	5.22	8.00	
ØN	3.00	3.55	
Q	26.80	27.20	

FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

FIGURE 2(c) - VARIANT 03, RELAY WITH SOLDERABLE HOOK-END TERMINALS AND VERTICAL SHOULDER BRACKETS





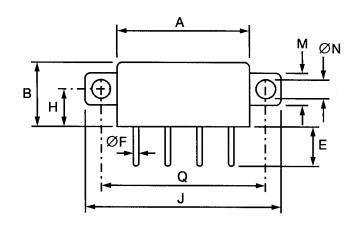


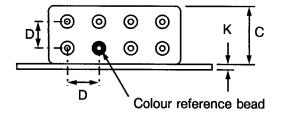
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SYMBOL	MILLIMETRES		
STIVIBOL	MIN.	MAX.	
Α	-	20.57	
В	-	10.41	
С	-	10.41	
D	4.98	5.18	
E	4.24	5.33	
ØF	0.66	0.86	
Н	5.97	6.73	
J	-	32.64	
K	0.38	0.80	
М	6.22	8.00	
ØN	3.00	3.55	
Q	26.80	27.20	

FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

FIGURE 2(d) - VARIANT 04, RELAY WITH PLUG-IN TERMINALS AND VERTICAL SHOULDER BRACKETS





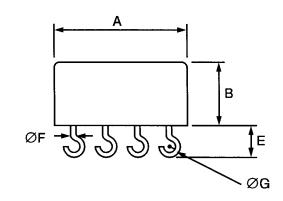


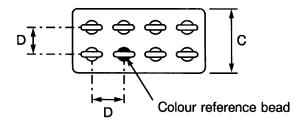
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FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

FIGURE 2(e) - VARIANT 05, RELAY WITH SOLDERABLE HOOK-END TERMINALS AND PLAIN CASE





SYMBOL	MILLIMETRES		
	MIN.	MAX.	
Α	-	20.57	
В	-	10.41	
С	-	10.41	
D	4.98	5.18	
E	4.11	4.83	
ØF	0.66	0.86	
ØG	-	1.80	

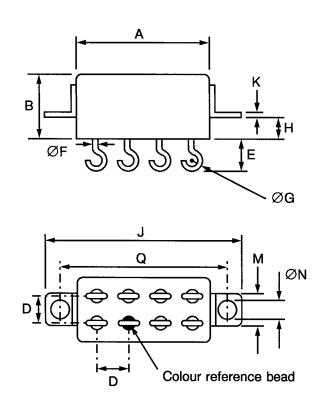


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FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

FIGURE 2(f) - VARIANT 06, RELAY WITH SOLDERABLE HOOK-END TERMINALS AND HORIZONTAL SHOULDER BRACKETS



SYMBOL	MILLIMETRES		
STMBOL	MIN.	MAX.	
Α	-	20.57	
В	-	10.41	
D	4.98	5.18	
E	4.11	4.83	
ØF	0.66	0.86	
ØG	-	1.80	
Н	3.05	3.30	
J	-	32.90	
K	0.51	0.76	
М	6.22	8.10	
ØN	3.00	3.55	
Q	26.60	27.40	

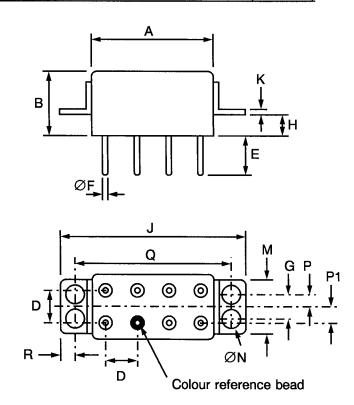


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FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

FIGURE 2(g) - VARIANT 07, RELAY WITH PLUG-IN TERMINALS AND HORIZONTAL SHOULDER BRACKETS (4 HOLES)



SYMBOL	MILLIM	ETRES
STWIBOL	MIN.	MAX.
Α	-	20.30
В	-	10.40
D	5.00	5.20
E	4.80	5.30
ØF	0.66	0.86
G	3.10	3.30
Н	3.10	3.30
J	29.80	30.00
K	0.50	0.80
М	9.30	9.70
ØN	2.20	2.60
Р	1.50	1.70
P1	2.40	2.70
Q	25.30	25.50
R	2.20	2.40

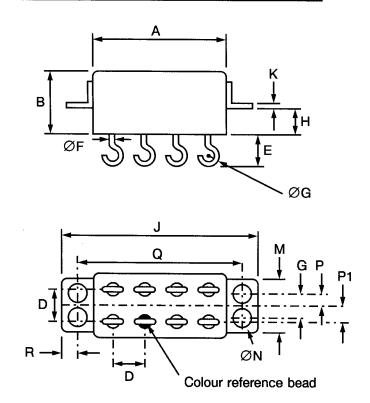


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FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

FIGURE 2(h) - VARIANT 08, RELAY WITH SOLDERABLE HOOK-END TERMINALS AND HORIZONTAL SHOULDER BRACKETS (4 HOLES)



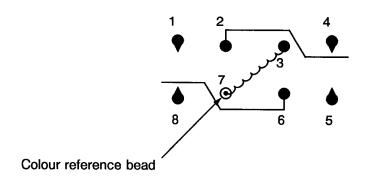
SYMBOL	MILLIMETRES			
STIVIBOL	MIN.	MAX.		
Α	-	20.30		
В	-	10.40		
D	5.00	5.20		
E	4.10	4.80		
ØF	0.64	0.89		
G	3.10	3.30		
ØG	1.70	1.90		
Н	3.10	3.30		
J	29.80	30.00		
K	0.50	0.80		
М	9.30	9.70		
ØN	2.20	2.60		
Р	1.50	1.70		
Q	25.30	25.50		
R	2.20	2.40		



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FIGURE 3 - CIRCUIT SCHEMATIC



LEAD IDENTIFICATION AS VIEWED FROM TERMINAL SIDE

NOTES

1. Numbers are for information only.



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4. **REQUIREMENTS**

4.1 GENERAL

The complete requirements for procurement of the relays specified herein shall be as stated in this specification and ESCC Generic Specification No. 3601 for Relays, Electromagnetic Non-Latching. Deviations from the Generic Specification, applicable to this specification only, are listed in Para. 4.2.

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

4.2 <u>DEVIATIONS FROM GENERIC SPECIFICATION</u>

4.2.1 <u>Deviations from Special In-process Controls</u>

None.

4.2.2 <u>Deviations from Final Production Tests (Chart II)</u>

None.

4.2.3 <u>Deviations from Screening Tests (Chart III)</u>

(a) Para. 9.6, Vibration Scan, Level and Frequency Range:-

30g: 10 - 2000Hz.

20g: 2000 - 3000Hz.

4.2.4 <u>Deviations from Qualification Tests</u> (Chart IV)

(a) Para. 9.10, Vibration, Level and Frequency Range:-

30g: 10 - 2000Hz.

20g: 2000 - 3000Hz.

(b) Para. 9.11, Mechanical Shock: Test Condition 'A'.

4.2.5 <u>Deviations from Lot Acceptance Tests (Chart V)</u>

(a) Para. 9.10, Vibration, Level and Frequency Range:-

30g: 10 - 2000Hz.

20g: 2000 - 3000Hz.

(b) Para. 9.11, Mechanical Shock: Test Condition 'A'.



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4.3 MECHANICAL REQUIREMENTS

4.3.1 Dimension Check

The dimensions of the relays specified herein shall be verified in accordance with the requirements set out in Para. 9.23 of ESCC Generic Specification No. 3601 and shall conform to those shown in Figure 2.

4.3.2 Weight

The maximum weight of the relays specified herein shall be 8.5 grammes.

4.3.3 <u>Terminal Strength</u>

The requirements for terminal strength testing are specified in Section 9 of ESCC Generic Specification No. 3601. The test conditions shall be as follows:-

Pull Test

Applied Force: 15 Newtons.

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 relays 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

Copper nickel, welded construction. Electro-deposited tin shall not be used. EP 90/10 SnPb alloy may be used.

4.4.2 <u>Terminal Material and Finish</u>

The lead material shall be Type 'F' with Type '3' finish in accordance with the requirements of ESCC Basic Specification No. 23500.

4.5 MARKING

4.5.1 General

The marking of components delivered to this specification shall be in accordance with the requirements of ESCC 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) Terminal Identification.
- (b) The ESCC Component Number.
- (c) Electrical Characteristics.
- (d) Traceability Information.

4.5.2 Terminal Identification

Terminal identification shall be marked on the relay can in accordance with Figure 3.



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4.5.3 The ESCC Component Number

Each component shall bear the ESCC Component Number which shall be constituted and marked as follows:

Detail Specification Number	360 100302E
Type Variant (see Table 1(a))	
Testing Level (B or C. as applicable)	

4.5.4 Electrical Characteristics

The electrical characteristic to be marked is the rated coil voltage. The information shall be constituted and marked as follows:-

Coil Voltage		
26.5Vdc	900Ω 700Ω	26V1 26V2
12Vdc	190Ω 150Ω	12V1 12V2
6Vdc	50Ω 37Ω	6V1 6V2

4.5.5 Traceability Information

Each component shall be marked in respect of traceability information as defined in ESCC Basic Specification No. 21700.

4.6 ELECTRICAL MEASUREMENTS

4.6.1 <u>Electrical Measurements at Room Temperature</u>

The parameters to be measured at room temperature are scheduled in Table 2. Unless otherwise specified, the measurements shall be performed at $T_{amb} = +22 \pm 3$ °C.

4.6.2 <u>Electrical Measurements at High and Low Temperatures</u>

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

4.6.3 <u>Circuits for Electrical Measurements (Figure 4)</u>

Not applicable.

4.7 SCREENING

4.7.1 Miss Test

During the miss test, the contact resistance shall be continuously monitored and shall not exceed the values specified in Table 4.

4.7.2 Conditions for Screening

The requirements for screening are specified in Section 7 of ESCC Generic Specification No. 3601. The conditions for screening shall be as specified in Table 5(a) of this specification.

4.7.3 Electrical Circuits for Screening (Figure 5(a))

Not applicable.



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TABLE 2 - ELECTRICAL MEASUREMENTS AT ROOM TEMPERATURE

No.	CHARACTERISTICS	SYMBOL	ESCC 3601	TEST	LIM	ITS	UNIT
NO.	CHARACTERISTICS	STIVIBUL	TEST METHOD	CONDITION	MIN.	MAX.	UNIT
1	Pick-up Voltage:- 26V, 1 and 2 12V, 1 and 2 6V, 1 and 2	Uc	Para. 9.3.1	Para. 9.3.1	7.0 3.5 1.5	13.5 6.8 3.2	V
2	Drop-out Voltage:- 26V, 1 and 2 12V, 1 and 2 6V, 1 and 2	U _d	Para. 9.3.2	Para. 9.3.2	1.5 0.7 0.35	6.5 3.5 1.6	V
3	Operating Time	tc	Para. 9.3.4	Para. 9.3.4	-	4.0	ms
4	Release Time	t _d	Para. 9.3.4	Para. 9.3.4	-	4.0	ms
5	Bounce Time	t _b	Para. 9.3.4	Para. 9.3.4	-	2.0	ms
6	Insulation Resistance	Ri	Para. 9.3.7	Para. 9.3.7 at 100Vdc	10 000	-	МΩ
7	Voltage Proof	VP	Para. 9.3.6	Para. 9.3.6 Note 1	1 000	-	Vrms
8	Contact Voltage Drop	V _d	Para. 9.3.3	Para. 9.3.3	-	5.0	mV
9	Coil Resistance:- 26V2 12V2 6V2	R _B	Para. 9.3.5	Para. 9.3.5	630 135 33	770 165 41	Ω
	26V1 12V1 6V1				810 170 45	990 210 55	

 $\label{eq:notes} \frac{\text{NOTES}}{\text{1.}} \hspace{0.2cm} \text{500V between coil and case - between open contacts.}$



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TABLE 3 - ELECTRICAL MEASUREMENTS AT HIGH AND LOW TEMPERATURES

No.	CHARACTERISTICS	SYMBOL	ESCC 3601	TEST	LIM	LINUT	
140.	O IA IAO I ENIS NOS	STIVIDOL	TEST METHOD	CONDITION	MIN.	MAX.	UNIT
1	Pick-up Voltage:- 26V, 1 and 2 12V, 1 and 2 6V, 1 and 2	Uc	Para. 9.3.1	Para. 9.3.1	- - -	18.0 8.4 4.4	V
2	Drop-out Voltage:- 26V, 1 and 2 12V, 1 and 2 6V, 1 and 2	Π ^q	Para. 9.3.2	Para. 9.3.2	1.0 0.6 0.3	- - -	V
3	Operating Time	tc	Para. 9.3.4	Para. 9.3.4	1.0	4.0	ms
4	Release Time	t _d	Para. 9.3.4	Para. 9.3.4	-	4.0	ms
5	Bounce Time	t _b	Para. 9.3.4	Para. 9.3.4	-	2.0	ms
6	Insulation Resistance	Ri	Para. 9.3.7	Para. 9.3.7 at 100Vdc Note 1	100	-	МΩ

NOTES1. This measurement shall be made only at the high temperature condition.



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FIGURE 4 - CIRCUITS FOR ELECTRICAL MEASUREMENTS

Not applicable.

TABLE 4 - MEASUREMENTS DURING SCREENING

No.	CHARACTERISTICS	SYMBOL	ESCC 3601 TEST METHOD	TEST CONDITIONS	MAXIMUM LIMIT	UNIT
10	Miss Test, Contact Resistance	R _C	Para. 9.8	Para. 9.8	100	Ω

TABLE 5(a) - CONDITIONS FOR SCREENING

No.	CHARACTERISTICS	SYMBOL	CONDITION	UNIT
1	Ambient High Temperature	T _{amb}	+ 125(+ 0 - 3)	°C
2	Ambient Low Temperature	T _{amb}	-65(+3-0)	°C
3	Ambient Room Temperature	T _{amb}	+ 22 ± 3	°C

TABLE 5(b) - CONDITIONS FOR OPERATING LIFE TEST

No.	CHARACTERISTICS	SYMBOL	CONDITION	UNIT
1	Ambient High Temperature	T _{amb}	+ 125(+ 0 - 3)	°C
2	Contact Load, Resistive	V	28 2.0	Vdc Adc

FIGURE 5(a) - ELECTRICAL CIRCUITS FOR SCREENING

Not applicable.

FIGURE 5(b) - ELECTRICAL CIRCUITS FOR OPERATING LIFE TESTS

Not applicable.



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4.8 <u>ENVIRONMENTAL AND ENDURANCE TESTS (CHARTS IV AND V OF ESCC GENERIC SPECIFICATION No. 3601)</u>

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 6. Unless otherwise stated, the measurements shall be performed at $T_{amb} = +22 \pm 3$ °C.

4.8.2 <u>Measurements and Inspections during Endurance Tests</u>

The parameters to be measured and inspections to be performed during endurance tests are scheduled in Table 6. Unless otherwise stated, the measurements shall be performed at T_{amb} = +22 ±3 °C.

4.8.3 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} = +22 ±3 °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 ESCC Generic Specification No. 3601. The conditions for operating life testing shall be as specified in Table 5(b) of this specification.

4.8.5 <u>Electrical Circuits for Operating Life Tests (Figure 5(b))</u>

Not applicable.



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

	ESCC GENERIC SP	EC. NO. 3601	MEASUREMENTS AND	INSPECTIONS		LIM	ITS	
No.	ENVIRONMENTAL AND ENDURANCE TESTS (1)	TEST METHOD AND CONDITIONS	IDENTIFICATION	CONDITIONS	SYMBOL	MIN.	MAX.	UNIT
01	Vibration	Para. 9.10 and Para. 4.2.4 of this spec.	Measurements during Test Contact Monitoring	ESCC 3601 Para. 9.10		1	į	-
			Final Measurements Visual Examination	-	-	-	,	-
02	Mechanical Shock	Para. 9.11 and Para. 4.2.4 of this spec.	Measurements during Test Contact Monitoring	ESCC 3601 Para. 9.11	-	1	-	-
			Final Measurements Electrical Measurements Visual Examination	Table 2 Items 7-8-1-2	-	Tab -	le 2 -	
03	Overload	Para. 9.12 and Table 1(b) Item 4 of this spec.	Measurements during Test Contact Voltage Drop	ESCC 3601 Para. 9.12.1	V _d	Para.	9.12.1 	mV
			Final Measurements Fuse Continuity Contact Voltage Drop Insulation Resistance Voltage Proof (all Points) Electrical Measurements	- Table 2 Item 8 Table 2 Item 6 Table 2 Item 7 Table 2 Items 1-2-3-4-5-9	- V _d Ri VP		20	mV MΩ Vrms
04	Thermal Shock	Para. 9.13	During 5th Cycle Electrical Measurements at +125°C Electrical Measurements at -65°C Final Measurements Visual Examination Voltage Proof (all Points)	In Conditioning Chamber Table 3 Items 1-2-3-4-7 Table 3 Items 1-2-3-4	- VP	Tab	le 3 le 3 le 3	- Vrms
05	Salt Spray	Para. 9.14	Final Measurements Visual Examination Electrical Measurements	Table 2 Items 1-2-3-4-5-6-8-9	-		- le 2	-
06	Intermediate Current	Para. 9.16	Voltage Proof (all Points) Measurements during Test Contact Voltage Drop	Table 2 Item 7 ESCC 3601 Para. 9.16.1	VP V _d		le 2 9.16.1	Vrms mV
			Final Measurements Insulation Resistance Voltage Proof (all Points) Electrical Measurements	Table 2 Item 6 Table 2 Item 7 Table 2 Items 1-2-3-4-5-9	Ri VP		- le 2 le 2	MΩ Vrms
			Contact Voltage Drop	ESCC 3601 Para. 9.16.1	V _d	Para.	9.16.1	mV
07	Terminal Strength	Para. 9.17 and Para. 4.3.3 of this spec.	Visual Examination	ESCC 3601 Para. 9.17.3	-	-	-	-

NOTES

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



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

	ESCC GENERIC SPEC. NO. 3601		MEASUREMENTS AND	NSPECTIONS		LIMITS		
No.	ENVIRONMENTAL AND ENDURANCE TESTS (1)	TEST METHOD AND CONDITIONS	IDENTIFICATION	CONDITIONS	SYMBOL	MIN.	MAX.	UNIT
08	Resistance to Soldering Heat	Para. 9.18	Electrical Measurements	Table 2 Items 1-2-6-8-9		Tab	le 2	
09	Operating Life Resistive	Para's 9.19, 9.19.1 and Table 5(b) of this spec.	Measurements during Test Contact Voltage Drop Final Measurements	ESCC 3601 Para. 9.19.1	V _d	Para.		mV
			Fuse Continuity Contact Voltage Drop Insulation Resistance Voltage Proof (all Points) Electrical Measurements	Table 2 Item 8 Table 2 Item 6 Table 2 Item 7 Table 2 Items 1-2-3-4-5-9	- V _d Ri VP	- 5000 Tab	nuity 20 - le 2 le 2	mV MΩ Vrms
10	Operating Life Low Level Load and Mechanical Life	Para. 9.19.2	Measurements during Test Contact Voltage Drop	ESCC 3601 Para. 9.19.2	V _d	Para.	9.19.2 	mV
			Final Measurements Contact Voltage Drop Insulation Resistance Voltage Proof (all Points) Electrical Measurements	Table 2 Item 8 Table 2 Item 6 Table 2 Item 7 Table 2 Items 1-2-3-4-5-9	V _d Ri VP		10 - le 2 le 2	mV MΩ Vrms
11	Coil Life	Para. 9.20	Initial Measurements Electrical Measurements After 100 hours Electrical Measurements at -65°C At 250, 500, 750 hours Electrical Measurements During Last Cycle Electrical Measurements at +125°C Electrical Measurements at -65°C Final Measurements Electrical Measurements	Table 2 Items 8-9 Table 2 Item 8 Table 3 Items 3-4 Table 2 Items 8-9 Table 3 Items 1-2 Table 3 Items 1-2 Table 2 Items 3 to 9	_	Tab Tab Tab Tab	le 2 le 3 le 3 le 3 le 3	-

NOTES

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