ESCC
European Space Components Coordination

Pages 1 to 27

RELAYS, ELECTROMAGNETIC, NON-LATCHING

28VDC, 1A, 2PDT, 1/6 CRYSTAL CAN

ESCC Detail Specification No. 3601/012

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

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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 a Relay, Electromagnetic, Non-Latching, 28Vdc, 1A, 2PDT, in a 1/6 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 CIRCUIT SCHEMATIC

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.

TABLE 1(a) - TYPE VARIANTS

VARIANT	DESCRIPTION	FIGURE
01	Relay with Plug-in Terminals and Plain Case	2(a)
02	Relay with Lead Terminals and Plain Case	2(b)
03	Relay with Solderable, Hook-end Terminals and Plain Case	2(c)
04	Relay with Plug-in Terminals and Horizontal Shoulder Brackets	2(d)
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06	Relay with Solderable, Hook-end Terminals and Horizontal Shoulder Brackets	2(f)
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08	Relay with Lead Terminals and Flush Horizontal Shoulder Brackets	2(h)
09	Relay with Solderable, Hook-end Terminals and Flush Horizontal Shoulder Brackets	2(i)
10	Relay with Lead Terminals and Vertical Shoulder Brackets	2(j)
11	Relay with Solderable, Hook-end Terminals and Vertical Shoulder Brackets	2(k)

TABLE 1(b) - MAXIMUM RATINGS

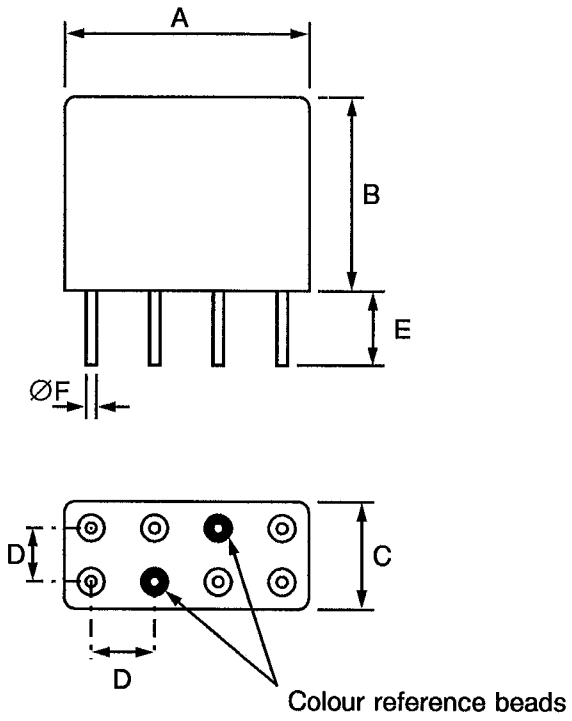
No.	CHARACTERISTICS	SYMBOL	MAXIMUM RATING	UNIT	REMARKS
1	Rated Coil Voltage:- 26V 12V 6V	V_{CR}	 26.5 12 6.0	Vdc	
2	Coil Voltage Range:- 28V 12V 6V	V_{CR}	 26.5 to 32 11 to 15 5.5 to 7.5	Vdc	
3	Rated Contact Current Resistive Load	I_{CR}	1.0	A	28Vdc resistive Note 1
4	Overload Current Resistive	I_{overl}	2.0	A	28Vdc resistive See Table 6
5	Contact Resistance	R_C	50	mΩ	
6	High Temperature	T_{amb}	+125	°C	
7	Low Temperature	T_{amb}	−65	°C	
8	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 1.5mm from the device body and the same terminal shall not be resoldered until 3 minutes have elapsed.

FIGURE 2 - PHYSICAL DIMENSIONS

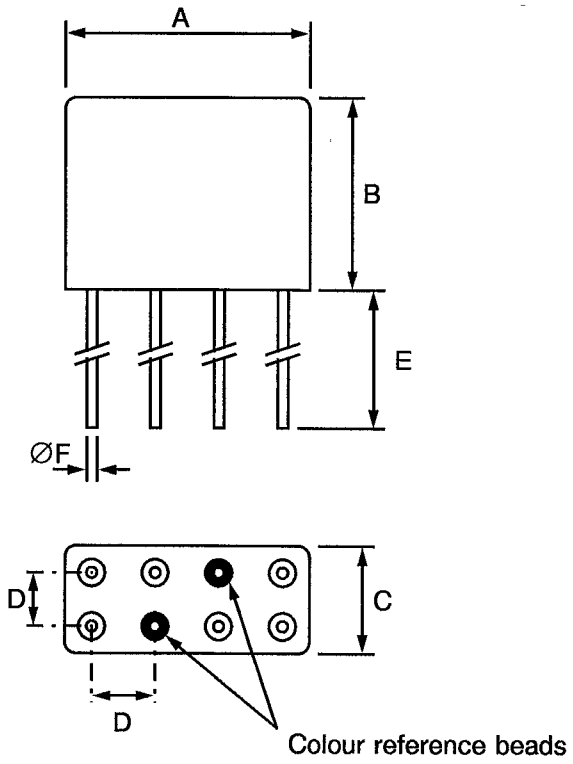
FIGURE 2(a) - VARIANT 01, RELAY WITH PLUG-IN TERMINALS AND PLAIN CASE



SYMBOL	MILLIMETRES	
	MIN.	MAX.
A	-	13.00
B	-	10.40
C	-	6.10
D	2.52	2.56
E	4.50	5.10
ØF	0.55	0.65

FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

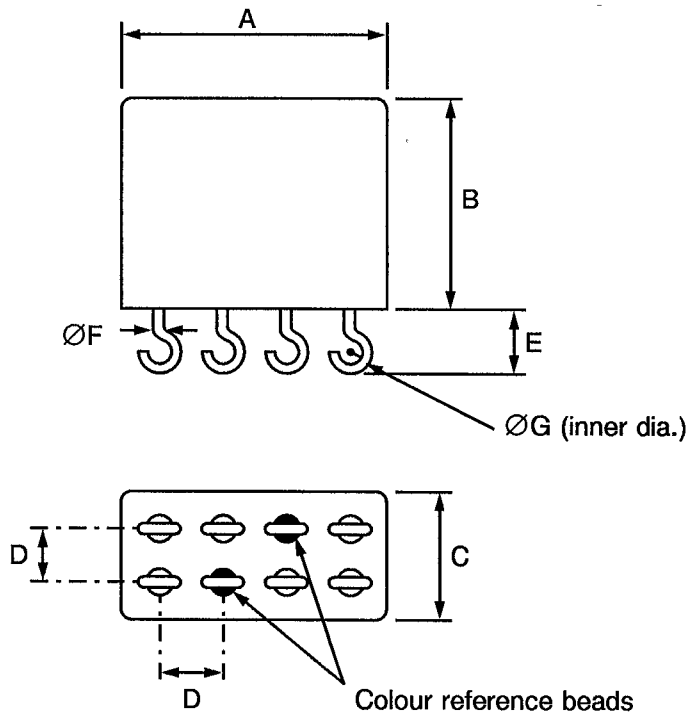
FIGURE 2(b) - VARIANT 02, RELAY WITH LEAD TERMINALS AND PLAIN CASE



SYMBOL	MILLIMETRES	
	MIN.	MAX.
A	-	13.00
B	-	10.40
C	-	6.10
D	2.52	2.56
E	37.00	39.00
ØF	0.55	0.65

FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

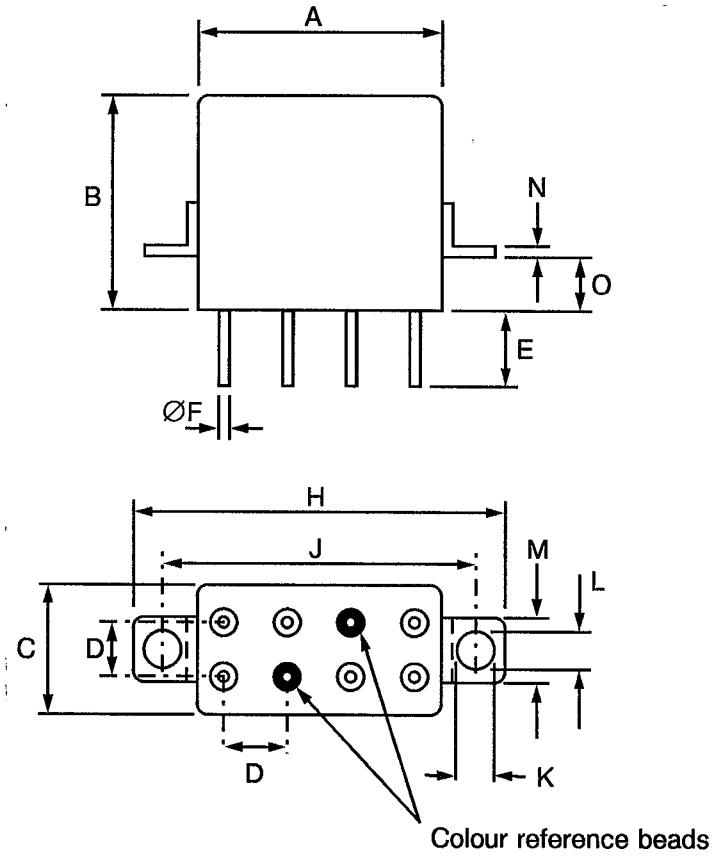
FIGURE 2(c) - VARIANT 03, RELAY WITH SOLDERABLE, HOOK-END TERMINALS AND PLAIN CASE



SYMBOL	MILLIMETRES	
	MIN.	MAX.
A	-	13.00
B	-	10.40
C	-	6.10
D	2.52	2.56
E	3.20	3.80
ØF	0.55	0.65
ØG	-	0.90

FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

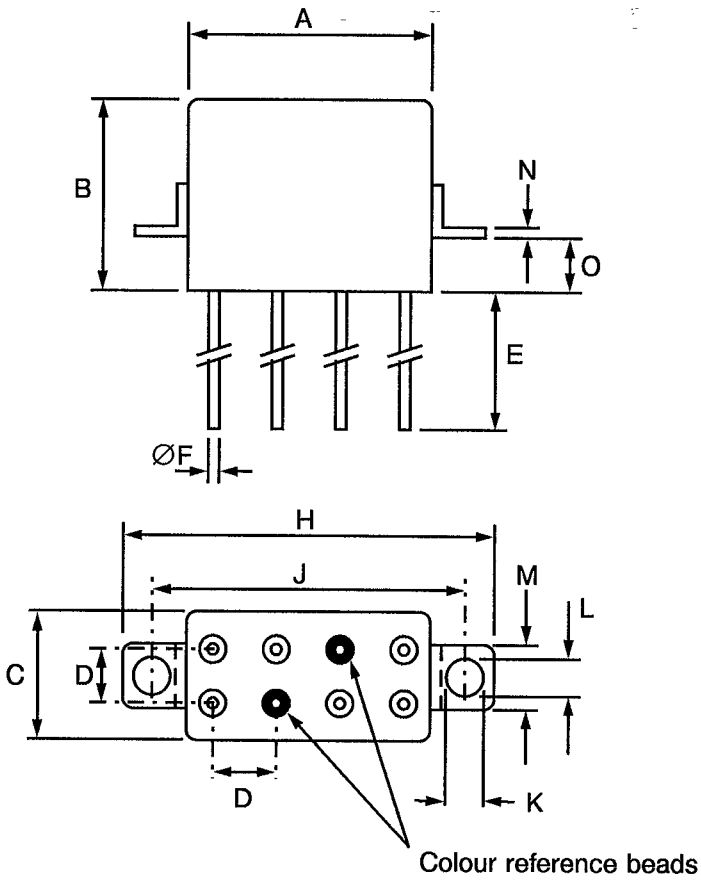
FIGURE 2(d) - VARIANT 04, RELAY WITH PLUG-IN TERMINALS AND HORIZONTAL SHOULDER BRACKETS



SYMBOL	MILLIMETRES	
	MIN.	MAX.
A	-	13.00
B	-	10.40
C	-	6.10
D	2.52	2.56
E	4.50	5.10
ØF	0.55	0.65
H	-	22.85
J	17.35	18.35
K	3.10	3.30
L	2.15	2.65
M	4.50	4.90
N	0.35	0.45
O	2.80	3.60

FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

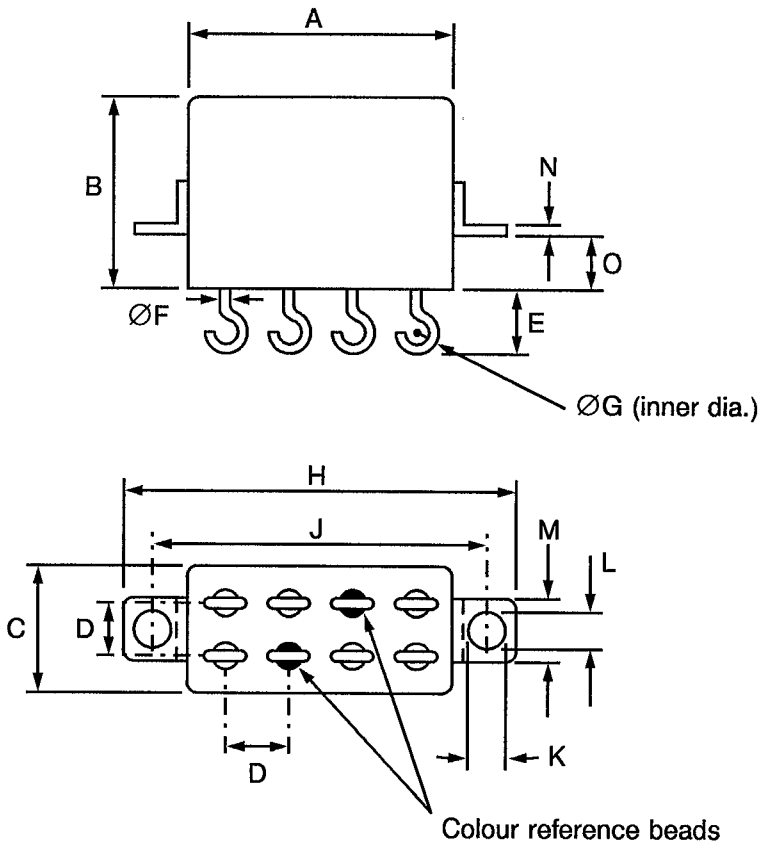
FIGURE 2(e) - VARIANT 05, RELAY WITH LEAD TERMINALS AND HORIZONTAL SHOULDER BRACKETS



SYMBOL	MILLIMETRES	
	MIN.	MAX.
A	-	13.00
B	-	10.40
C	-	6.10
D	2.52	2.56
E	37.00	39.00
ØF	0.55	0.65
H	-	22.85
J	17.35	18.35
K	3.10	3.30
L	2.15	2.65
M	4.50	4.90
N	0.35	0.45
O	2.80	3.60

FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

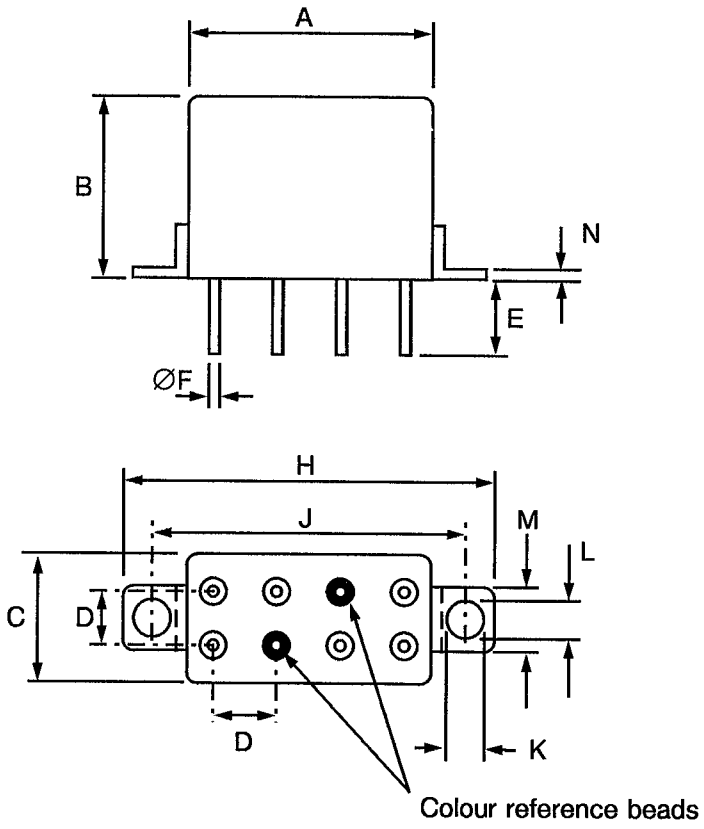
FIGURE 2(f) - VARIANT 06, RELAY WITH SOLDERABLE, HOOK-END TERMINALS AND HORIZONTAL SHOULDER BRACKETS



SYMBOL	MILLIMETRES	
	MIN.	MAX.
A	-	13.00
B	-	10.40
C	-	6.10
D	2.52	2.56
E	3.20	3.80
ØF	0.55	0.65
ØG	-	0.90
H	-	22.85
J	17.35	18.35
K	3.10	3.30
L	2.15	2.65
M	4.50	4.90
N	0.35	0.45
O	2.80	3.60

FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

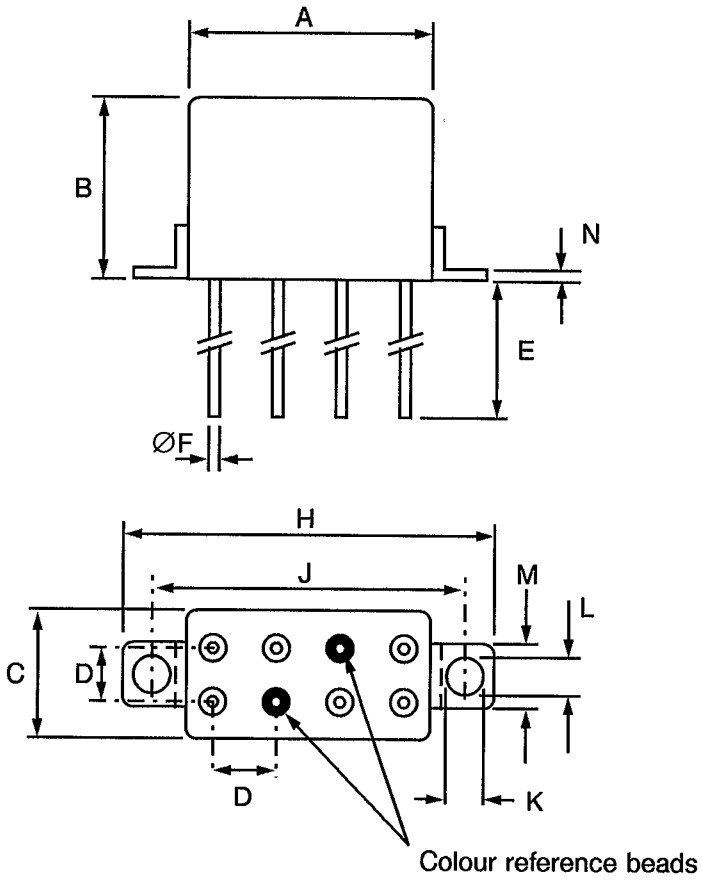
FIGURE 2(g) - VARIANT 07, RELAY WITH PLUG-IN TERMINALS AND FLUSH HORIZONTAL SHOULDER BRACKETS



SYMBOL	MILLIMETRES	
	MIN.	MAX.
A	-	13.00
B	-	10.40
C	-	6.10
D	2.52	2.56
E	4.50	5.10
ØF	0.55	0.65
H	-	22.85
J	17.35	18.35
K	3.10	3.30
L	2.15	2.65
M	4.50	4.90
N	0.35	0.45

FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

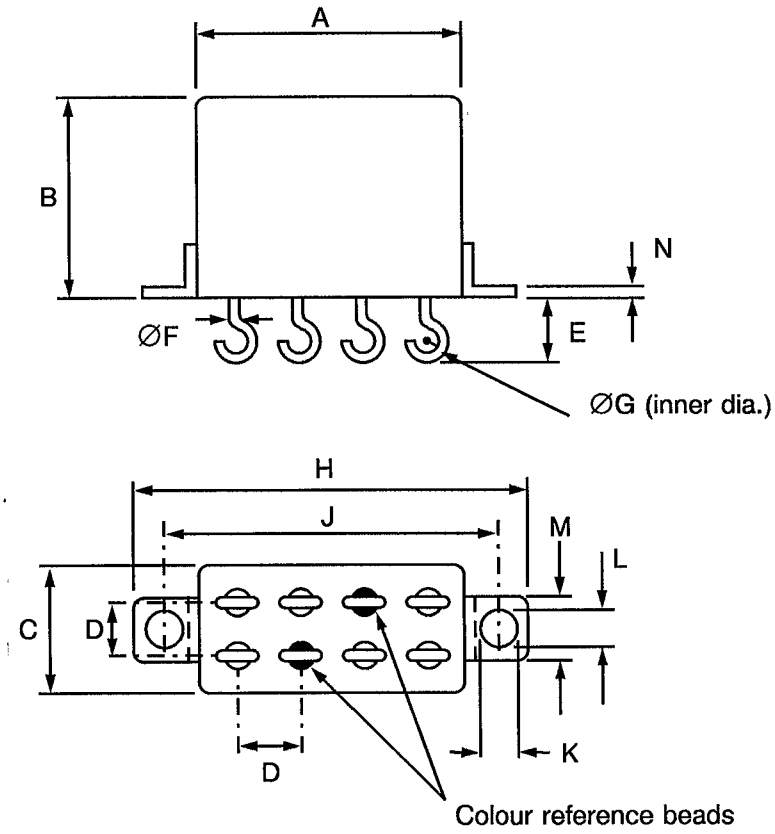
FIGURE 2(h) - VARIANT 08, RELAY WITH LEAD TERMINALS AND FLUSH HORIZONTAL SHOULDER BRACKETS



SYMBOL	MILLIMETRES	
	MIN.	MAX.
A	-	13.00
B	-	10.40
C	-	6.10
D	2.52	2.56
E	37.00	39.00
ØF	0.55	0.65
H	-	22.85
J	17.35	18.35
K	3.10	3.30
L	2.15	2.65
M	4.50	4.90
N	0.35	0.45

FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

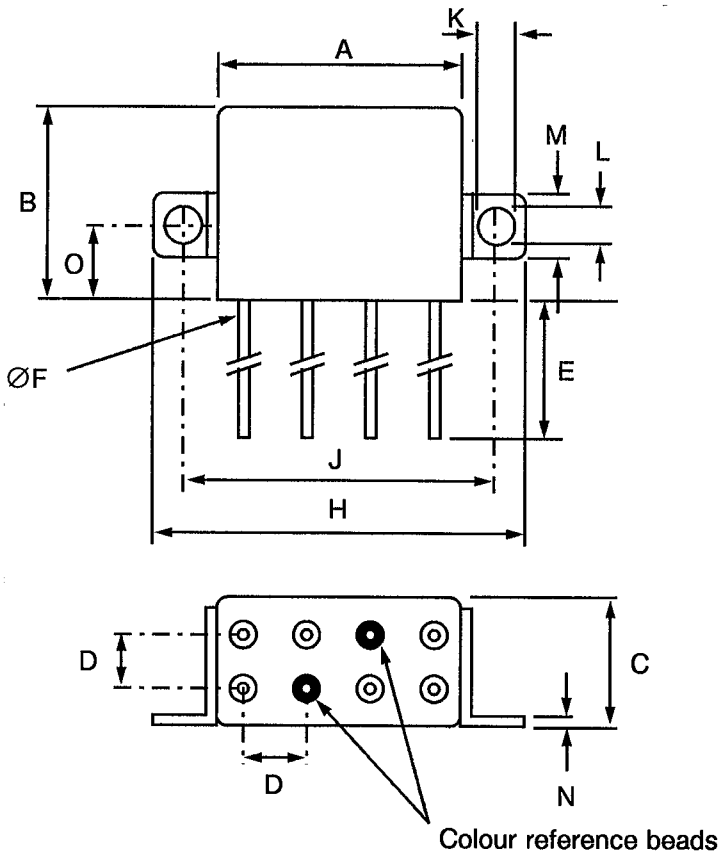
FIGURE 2(i) - VARIANT 09, RELAY WITH SOLDERABLE, HOOK-END TERMINALS AND FLUSH HORIZONTAL SHOULDER BRACKETS



SYMBOL	MILLIMETRES	
	MIN.	MAX.
A	-	13.00
B	-	10.40
C	-	6.10
D	2.52	2.56
E	3.20	3.90
ØF	0.55	0.65
ØG	-	0.90
H	-	22.85
J	17.35	18.35
K	3.10	3.30
L	2.15	2.65
M	4.50	4.90
N	0.35	0.45

FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

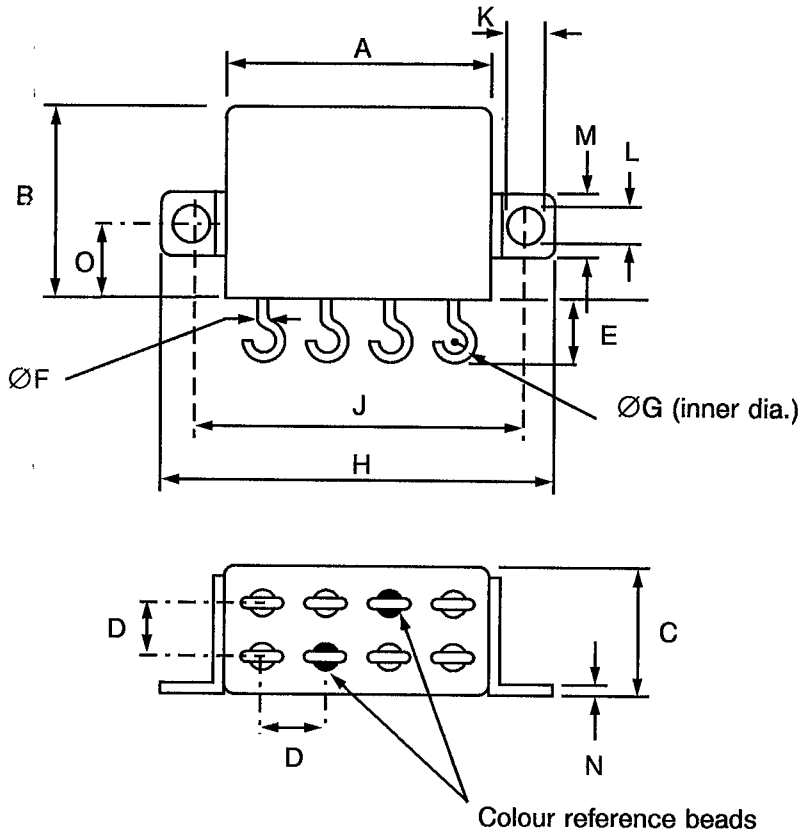
FIGURE 2(j) - VARIANT 10, RELAY WITH LEAD TERMINALS AND VERTICAL SHOULDER BRACKETS



SYMBOL	MILLIMETRES	
	MIN.	MAX.
A	-	13.00
B	-	10.40
C	-	6.10
D	2.52	2.56
E	37.00	39.00
ØF	0.55	0.65
H	-	22.85
J	17.35	18.35
K	3.10	3.30
L	2.15	2.65
M	4.50	4.90
N	0.35	0.45
O	5.25	5.55

FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

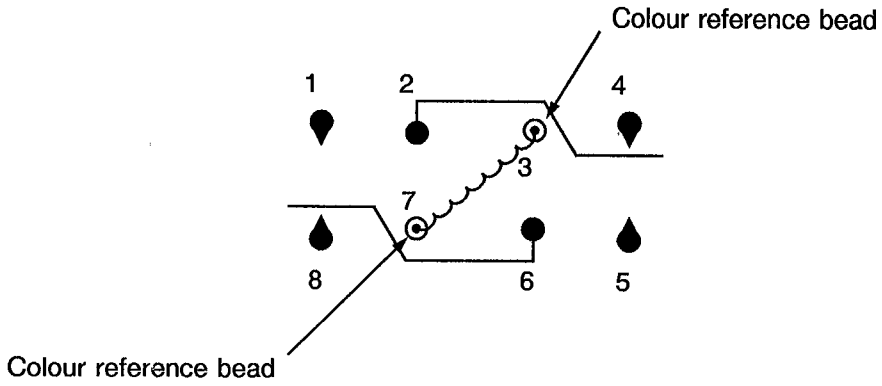
FIGURE 2(k) - VARIANT 11, RELAY WITH SOLDERABLE, HOOK-END TERMINALS AND VERTICAL SHOULDER BRACKETS



SYMBOL	MILLIMETRES	
	MIN.	MAX.
A	-	13.00
B	-	10.40
C	-	6.10
D	2.52	2.56
E	3.20	3.90
ØF	0.55	0.65
ØG	-	0.90
H	-	22.85
J	17.35	18.35
K	3.10	3.30
L	2.15	2.65
M	4.50	4.90
N	0.35	0.45
O	5.25	5.55

FIGURE 3 - CIRCUIT SCHEMATIC

LEAD IDENTIFICATION AS VIEWED FROM TERMINAL SIDE



NOTES

1. Numbers are for information only.

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 Specification 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 DEVIATIONS FROM GENERIC SPECIFICATION

4.2.1 Deviations from Special In-process Controls

None.

4.2.2 Deviations from Final Production Tests (Chart II)

(a) Para. 9.6, Vibration Scan: Frequency Range: 10 - 3000Hz.

4.2.3 Deviations from Screening Tests (Chart III)

(a) Para. 9.10, Vibration: Frequency Range: 10 - 3000Hz.

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

4.2.4 Deviations from Qualification Tests (Chart IV)

(a) Para. 9.10, Vibration: Frequency Range: 10 - 3000Hz.

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

(c) Para. 9.16, Intermediate Current: Contact current and voltage: 10mA, 28Vdc.

4.2.5 Deviations from Lot Acceptance Tests (Chart V)

(a) Para. 9.10, Vibration: Frequency Range: 10 - 3000Hz.

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

(c) Para. 9.16, Intermediate Current: Contact current and voltage: 10mA, 28Vdc.

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. 9.5 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 4.0 grammes.

4.3.3 Terminal Strength

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

(a) Pull Test

Applied Force: 10 Newtons.

Duration: 10 seconds.

(b) Bend Test

Load: 5.0 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

The case material shall be copper nickel, hermetically sealed.

4.4.2 Terminal Material and Finish

The terminal material shall be Type 'D' 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 all components delivered to this specification shall be in accordance with the requirements of ESCC Basic Specification No. 21700. Each component shall be marked in respect of:-

(a) Terminal Identification.

(b) The ESCC Component Number.

(c) Electrical Characteristics.

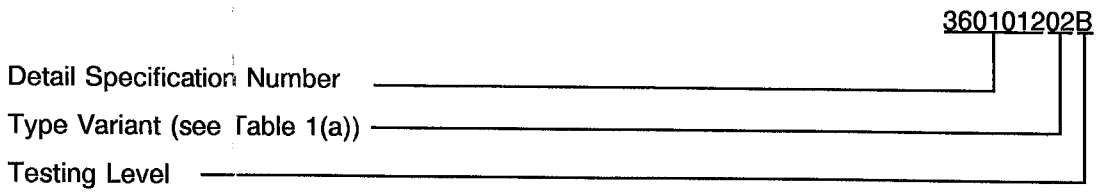
(d) Traceability Information.

4.5.2 Terminal Identification

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

4.5.3 The ESCC Component Number

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



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	Coil Resistance	Code
26.5Vdc	1500Ω	26V
12Vdc	330Ω	12V
6Vdc	90Ω	6V

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 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 $T_{amb} = +22 \pm 3$ °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 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 of this specification.

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.

TABLE 2 - ELECTRICAL MEASUREMENTS AT ROOM TEMPERATURE

No.	CHARACTERISTICS	SYMBOL	ESCC 3601 TEST METHOD	TEST CONDITION	LIMITS		UNIT
					MIN.	MAX.	
1	Pick-up Voltage:- 26V 12V 6V	U_C	Para. 9.3.1	Para. 9.3.1	 7.0 3.5 1.5	 13.5 6.0 3.2	V
2	Drop-out Voltage:- 26V 12V 6V	U_d	Para. 9.3.2	Para. 9.3.2	 1.5 1.0 0.5	 8.0 4.0 1.6	V
3	Operating Time	t_C	Para. 9.3.4	Para. 9.3.4	-	3.0	ms
4	Release Time	t_d	Para. 9.3.4	Para. 9.3.4	-	3.0	ms
5	Bounce Time	t_b	Para. 9.3.4	Para. 9.3.4	-	1.5	ms
6	Insulation Resistance	Ri	Para. 9.3.7	Para. 9.3.7 At 100Vdc	10000	-	MΩ
7	Voltage Proof	V_p	Para. 9.3.6	Para. 9.3.6 Note 1	500	-	Vrms
8	Contact Voltage Drop	V_d	Para. 9.3.3	Para. 9.3.3	-	5.0	mV
9	Coil Resistance:- 26V 12V 6V	R_B	Para. 9.3.5	Para. 9.3.5	 1350 297 81	 1650 363 99	Ω

NOTES

1. 350V between open contacts.

TABLE 3 - ELECTRICAL MEASUREMENTS AT HIGH AND LOW TEMPERATURES

No.	CHARACTERISTICS	SYMBOL	ESCC 3601 TEST METHOD	TEST CONDITION	LIMITS		UNIT
					MIN.	MAX.	
1	Pick-up Voltage:- 26V 12V 6V	U_C	Para. 9.3.	Para. 9.3.1	 - - -	 18.0 9.0 4.5	V
2	Drop-out Voltage:- 26V 12V 6V	U_d	Para. 9.3.2	Para. 9.3.2	 1.2 0.8 0.4	 - - -	V
3	Operating Time	t_C	Para. 9.3.4	Para. 9.3.4	-	3.0	ms
4	Release Time	t_d	Para. 9.3.4	Para. 9.3.4	-	3.0	ms
5	Bounce Time	t_b	Para. 9.3.4	Para. 9.3.4	-	1.5	ms
6	Insulation Resistance	Ri	Para. 9.3.7	Para. 9.3.7 At 100Vdc Note 1	100	-	MΩ

NOTES

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

FIGURE 4 - CIRCUITS FOR ELECTRICAL MEASUREMENTS

Not applicable.

TABLE 4 - MEASUREMENTS DURING SCREENING

No.	CHARACTERISTICS	SYMBOL	ESCC 3601 TEST METHOD	TEST CONDITION	MAXIMUM LIMIT	UNIT
10	Miss Test, Contact Resistance	R_C	Para. 9.8	Para. 9.8	50	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 I	28 1.0	Vdc Adc

FIGURE 5(a) - ELECTRICAL CIRCUITS FOR SCREENING

Not applicable.

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

Not applicable.

4.8 ENVIRONMENTAL AND ENDURANCE TESTS (CHARTS IV AND V OF ESCC GENERIC SPECIFICATION NO. 3601)

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 Measurements and Inspections during Endurance Tests

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 $T_{amb} = +22 \pm 3$ °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 $T_{amb} = +22 \pm 3$ °C.

4.8.4 Conditions for Operating Life Test (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 Electrical Circuits for Operating Life Test (Figure 5(b))

Not applicable.

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

No.	ESCC GENERIC SPEC. NO. 3601		MEASUREMENTS AND INSPECTIONS		SYMBOL	LIMITS		UNIT
	ENVIRONMENTAL AND ENDURANCE TESTS (1)	TEST METHOD AND CONDITIONS	IDENTIFICATION	CONDITIONS		MIN.	MAX.	
01	Vibration	Para. 9.10 and Para. 4.2.4 of this spec.	**Measurements during Test** Contact Monitoring	ESCC 3601 Para. 9.10	-	-	-	-
			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	-	-	-	-
			Final Measurements Electrical Measurements	Table 2 Items 7-8-1-2		Table 2		
			Visual Examination	-	-	-	-	-
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	-	-	Continuity		
			Contact Voltage Drop	Table 2 Item 8	V_d	-	20	mV
			Insulation Resistance	Table 2 Item 6	Ri	5000	-	MΩ
			Voltage Proof (all Points)	Table 2 Item 7	VP	Table 2		Vrms
			Electrical Measurements	Table 2 Items 1-2-3-4-5-9		Table 2		
04	Thermal Shock	Para. 9.13	**During 5th Cycle**	In Conditioning Chamber				
			Electrical Measurements at +125°C	Table 3 Items 1-2-3-4-6		Table 3		
			Electrical Measurements at −65°C	Table 3 Items 1-2-3-4		Table 3		
			Final Measurements Visual Examination	-	-	-	-	-
			Voltage Proof (all Points)	Table 2 Item 7	VP	Table 2		Vrms
05	Salt Spray	Para. 9.14	**Final Measurements** Visual Examination	-	-	-	-	-
			Electrical Measurements	Table 2 Items 1-2-3-4-5-6-8-9		Table 2		
			Voltage Proof (all Points)	Table 2 Item 7	VP	Table 2		Vrms
06	Intermediate Current	Para. 9.16	**Measurements during Test** Contact Voltage Drop	ESCC 3601 Para. 9.16.1	V_d	Para. 9.16.1		mV
			Final Measurements Insulation Resistance	Table 2 Item 6	Ri	5000	-	MΩ
			Voltage Proof (all Points)	Table 2 Item 7	VP	Table 2		Vrms
			Electrical Measurements	Table 2 Items 1-2-3-4-5-9		Table 2		
			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.

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

No.	ESCC GENERIC SPEC. NO. 3601		MEASUREMENTS AND INSPECTIONS		SYMBOL	LIMITS		UNIT
	ENVIRONMENTAL AND ENDURANCE TESTS (1)	TEST METHOD AND CONDITIONS	IDENTIFICATION	CONDITIONS		MIN.	MAX.	
08	Resistance to Soldering Heat	Para. 9.18	Electrical Measurements	Table 2 Items 1-2-6-8-9		Table 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	ESCC 3601 Para. 9.19.1	V_d	Para. 9.19.1		mV
			Final Measurements Fuse Continuity	-	-	Continuity		
			Contact Voltage Drop	Table 2 Item 8	V_d	-	20	mV
			Insulation Resistance	Table 2 Item 6	Ri	5000	-	MΩ
			Voltage Proof (all Points)	Table 2 Item 7	VP	Table 2		Vrms
			Electrical Measurements	Table 2 Items 1-2-3-4-5-9		Table 2		
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	Table 2 Item 8	V_d	-	10	mV
			Insulation Resistance	Table 2 Item 6	Ri	5000	-	MΩ
			Voltage Proof (all Points)	Table 2 Item 7	VP	Table 2		Vrms
			Electrical Measurements	Table 2 Items 1-2-3-4-5-9		Table 2		
11	Coil Life	Para. 9.20	**Initial Measurements** Electrical Measurements	Table 2 Items 8-9		Table 2		-
			After 100 hours Electrical Measurements	Table 2 Item 8		Table 2		
			at −65°C	Table 3 Items 3-4		Table 3		
			At 250, 500, 750 hours Electrical Measurements	Table 2 Items 8-9		Table 2		
			During Last Cycle Electrical Measurements at +125°C	Table 3 Items 1-2		Table 3		
			Electrical Measurements at −65°C	Table 3 Items 1-2		Table 3		
			Final Measurements Electrical Measurements	Table 2 Items 3 to 9		Table 2		
			Visual Examination	-	-	-	-	-

NOTES

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