



**CAPACITOR FILTERS, PI-TYPE, FEEDTHROUGH,  
ELECTROMAGNETIC INTERFERENCE  
SUPPRESSION, NON-HERMETICALLY SEALED,  
BASED ON TYPE SFP060  
ESCC Detail Specification No. 3008/030**

**ISSUE 1  
October 2002**



	ESCC Detail Specification		PAGE ii ISSUE 1
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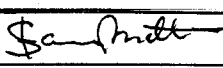
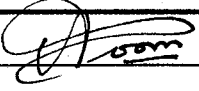
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Pages 1 to 19

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**space components  
coordination group**

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**SCC**

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No. 3008/030

PAGE 2

ISSUE 1

**DOCUMENTATION CHANGE NOTICE**

Rev. Letter	Rev. Date	Reference	CHANGE Item	Approved DCR No.

**TABLE OF CONTENTS**

	<u>Page</u>
<b>1. <u>GENERAL</u></b>	<b>5</b>
1.1 Scope	5
1.2 Component Type Variants	5
1.3 Maximum Ratings	5
1.4 Parameter Derating Information	5
1.5 Physical Dimensions	5
1.6 Functional Diagram	5
<b>2. <u>APPLICABLE DOCUMENTS</u></b>	<b>5</b>
<b>3. <u>TERMS, DEFINITIONS, ABBREVIATIONS, SYMBOLS AND UNITS</u></b>	<b>5</b>
<b>4. <u>REQUIREMENTS</u></b>	<b>10</b>
4.1 General	10
4.2 Deviations from Generic Specification	10
4.2.1 Deviations from Special In-process Controls	10
4.2.2 Deviations from Final Production Tests	10
4.2.3 Deviations from Burn-in and Electrical Measurements	10
4.2.4 Deviations from Qualification Tests	10
4.2.5 Deviations from Lot Acceptance Tests	10
4.3 Mechanical Requirements	10
4.3.1 Dimension Check	10
4.3.2 Weight	10
4.3.3 Robustness of Terminations	11
4.3.4 Solderability	11
4.3.5 Seal Test	11
4.4 Materials and Finishes	11
4.4.1 Case	11
4.4.2 Lead Material and Finish	11
4.4.3 Accessories	11
4.5 Marking	11
4.5.1 General	11
4.5.2 Lead Identification	12
4.5.3 The SCC Component Number	12
4.5.4 Traceability Information	12
4.6 Electrical Measurements	12
4.6.1 Electrical Measurements at Room Temperature	12
4.6.2 Electrical Measurements at High and Low Temperatures	12
4.6.3 Circuits for Electrical Measurements	12
4.7 Burn-in Tests	12
4.7.1 Parameter Drift Values	12
4.7.2 Conditions for Burn-in	12
4.7.3 Electrical Circuit for Burn-in	12
4.8 Environmental and Endurance Tests	16
4.8.1 Measurements and Inspections on Completion of Environmental Tests	16
4.8.2 Measurements and Inspections at Intermediate Points during Endurance Tests	16
4.8.3 Measurements and Inspections on Completion of Endurance Tests	16
4.8.4 Conditions for Operating Life Tests	16
4.8.5 Electrical Circuit for Operating Life Tests	16

**SCC**

ESA/SCC Detail Specification

No. 3008/030

PAGE 4

ISSUE 1

**TABLES**Page

1(a)	Type Variants	6
1(b)	Maximum Ratings	7
2	Electrical Measurements at Room Temperature - d.c. Parameters	13
	Electrical Measurements at Room Temperature - a.c. Parameters	13
3	Electrical Measurements at High and Low Temperatures	14
4	Parameter Drift Values	15
5(a)	Conditions for Burn-in Tests	15
5(b)	Conditions for Operating Life Tests	15
6	Measurements and Inspections on Completion of Environmental Tests and at Intermediate Points and on Completion of Endurance Testing	17

**FIGURES**

1	Parameter Derating Information	7
2	Physical Dimensions	8
3	Functional Diagram	9
4	Circuits for Electrical Measurements	N/A
5	Electrical Circuit for Burn-in and Operating Life Tests	N/A

**APPENDICES (Applicable to specific Manufacturers only)**

'A'	Agreed Deviations for EUROFARAD (F)	19
-----	-------------------------------------	----

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

This specification details the ratings, physical and electrical characteristics, test and inspection data for a Capacitor Filter, Pi-Type, Feedthrough, Electromagnetic Interference Suppression, Non-Hermetically Sealed, based on Type SFP060. It shall be read in conjunction with ESA/SCC Generic Specification No. 3008, the requirements of which are supplemented herein.

**1.2 COMPONENT TYPE VARIANTS**

Variants of the basic type capacitor filters 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 capacitor filters specified herein, are as scheduled in Table 1(b).

**1.4 PARAMETER DERATING INFORMATION**

The parameter derating information applicable to the capacitor filters specified herein, is shown in Figure 1.

**1.5 PHYSICAL DIMENSIONS**

The physical dimensions of the capacitor filters specified herein, are shown in Figure 2.

**1.6 FUNCTIONAL DIAGRAM**

The functional diagram, showing lead identification, of the capacitor filters 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) ESA/SCC Generic Specification No. 3008 for Capacitors and Capacitor Filters, Feedthrough.
- (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 ESA/SCC Basic Specification No. 21300 shall apply. In addition, the following abbreviations are used:-

$V_T$  = Test Voltage.



**SEC**

ESA/SCC Detail Specification

No. 3008/030

PAGE 6

ISSUE 1

**TABLE 1(a) - TYPE VARIANTS**

(1) Variant (Note 1)	(2) Rated Voltage $U_R$ (V)		(3) Insulation Resistance $R_i$ (G $\Omega$ )		(4) Voltage Proof $V_P$ (V)	(5) Voltage Drop $V_{dr}$ (V)	(6) d.c. Resistance $R_s$ (m $\Omega$ )	(7) Rated Current $I_R$ (A)	(8) Capacitance $C$ (pF)	(9) Insertion Loss ( $L_i$ ) (dB) With no current applied / With current applied				(10) Case Size (Note 1)	(11) Weight (g)	
	(a) -55°C/ +85°C	(b) +85°C/ +125°C	(a) -55°C/ +85°C	(b) +125°C						10MHz	50MHz	100MHz	500MHz			1.0GHz
01, 08, 15, 22	500	300	10	1.0	750	0.20	20	10	7 520	14 / 14	50 / 25	65 / 55	68 / 55	70 / 70	1	4.0
02, 09, 16, 23	200	100	10	1.0	500	0.15	15	10	8 960	20 / 20	50 / 35	65 / 60	65 / 65	65 / 65	2	3.0
03, 10, 17, 24	200	100	10	1.0	500	0.15	15	10	8 000	20 / 20	50 / 30	65 / 55	68 / 65	70 / 70	3	4.0
04, 11, 18, 25	100	70	5.0	0.5	250	0.15	15	10	89 600	60 / 35	70 / 70	75 / 75	75 / 75	75 / 75	1	4.0
05, 12, 19, 26	200	100	5.0	0.5	500	0.15	15	10	16 000	18 / 15	45 / 40	60 / 55	70 / 70	70 / 70	2	3.0
06, 13, 20, 27	50	35	5.0	0.5	125	0.15	15	10	89 600	60 / 35	70 / 70	70 / 70	70 / 70	70 / 70	1	4.0
07, 14, 21, 28	350	200	10	1.0	700	0.15	15	10	2 400	4.0 / -	30 / 20	45 / 25	60 / 60	70 / 70	3	4.0

**NOTES**

1. See the Table below and Figure 2 for physical characteristics.

VARIANT	CASE THREAD $E$	LOCK WASHER	INPUT TERMINAL
01 to 07	I : M6 x 0.75	Fan	Straight
08 to 14	I : M6 x 0.75	Fan	Button
15 to 21	U : 12-32 UNC	Tooth	Straight
22 to 28	U : 12-32 UNC	Tooth	Button

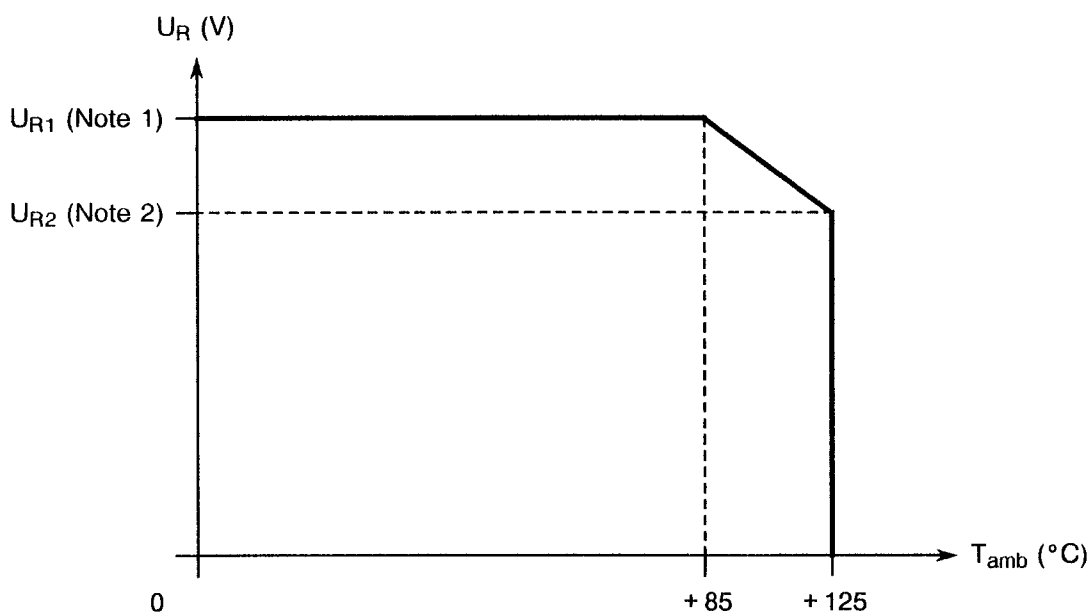


**TABLE 1(b) - MAXIMUM RATINGS**

No.	Characteristic	Symbol	Maximum Ratings	Unit	Remarks
1	Rated d.c. Voltage	$U_R$	See Table 1(a) Column 2	V	Notes 1 and 2
2	Voltage Drop	$V_{dr}$	See Table 1(a) Column 5	V	
3	d.c. Resistance	$R_s$	See Table 1(a) Column 6	m $\Omega$	
4	Rated Current	$I_R$	10	A	Note 3
5	Torque	$T_{qe}$	0.8	Nm	
6	Operating Temperature Range	$T_{op}$	-55 to +125	$^{\circ}\text{C}$	$T_{amb}$
7	Storage Temperature Range	$T_{stg}$	-55 to +125	$^{\circ}\text{C}$	
8	Soldering Temperature	$T_{sol}$	+260	$^{\circ}\text{C}$	Note 4

**NOTES**

1. At  $T_{amb} \leq +85^{\circ}\text{C}$ . For derating at  $T_{amb} > +85^{\circ}\text{C}$ , see Figure 1.
2. The addition of d.c. applied voltage and ripple voltage shall never exceed the rated d.c. voltage.
3. d.c. and low frequency.
4. Duration 10 seconds maximum at a distance of not less than 2.0mm from the device body and the same lead shall not be resoldered until 3 minutes have elapsed.

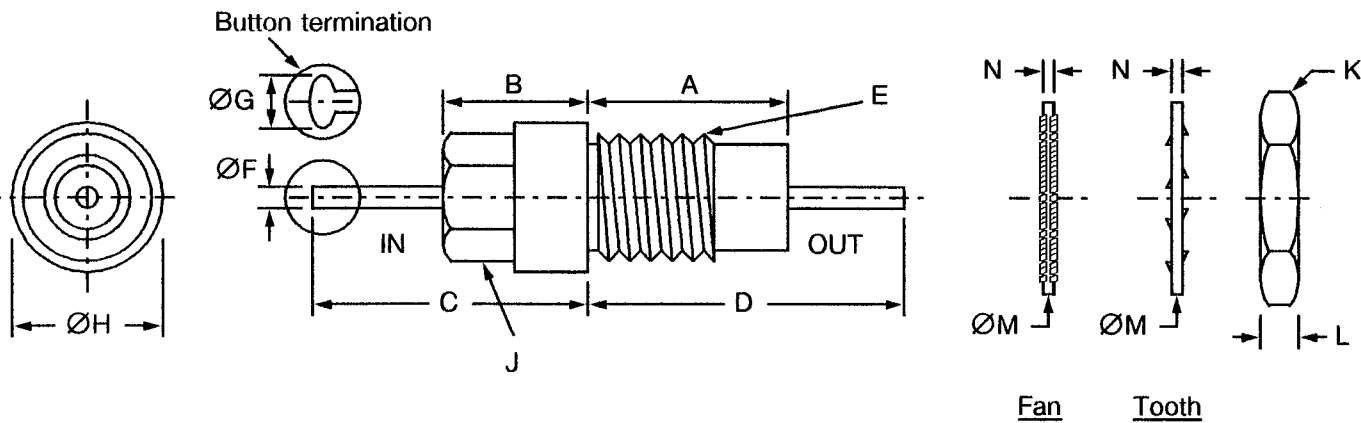
**FIGURE 1 - PARAMETER DERATING INFORMATION****Rated Voltage versus Temperature****NOTES**

1. See  $U_{R1}$  Voltage value for each variant on Table 1(a), Column 2(a).
2. See  $U_{R2}$  Voltage value for each variant on Table 1(a), Column 2(b).

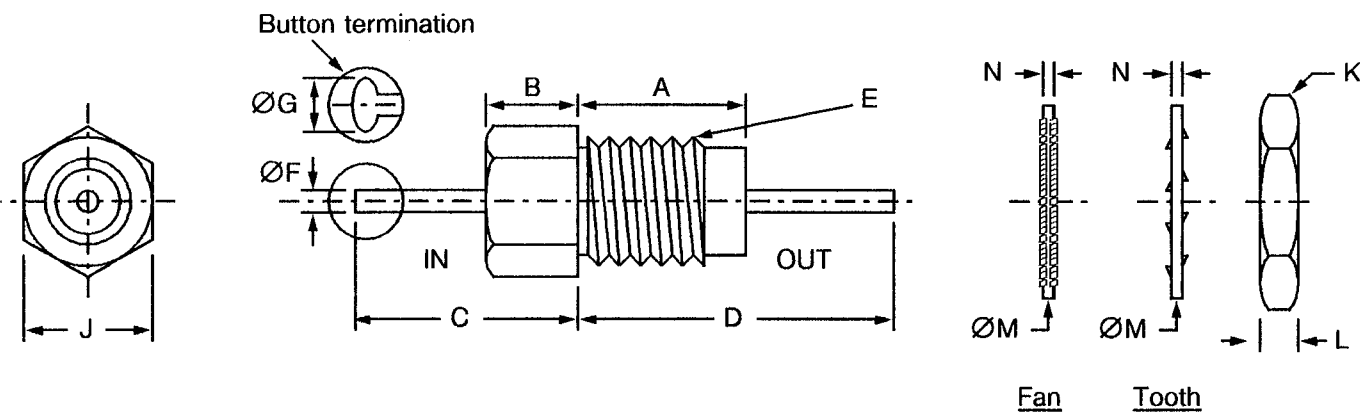


**FIGURE 2 - PHYSICAL DIMENSIONS**

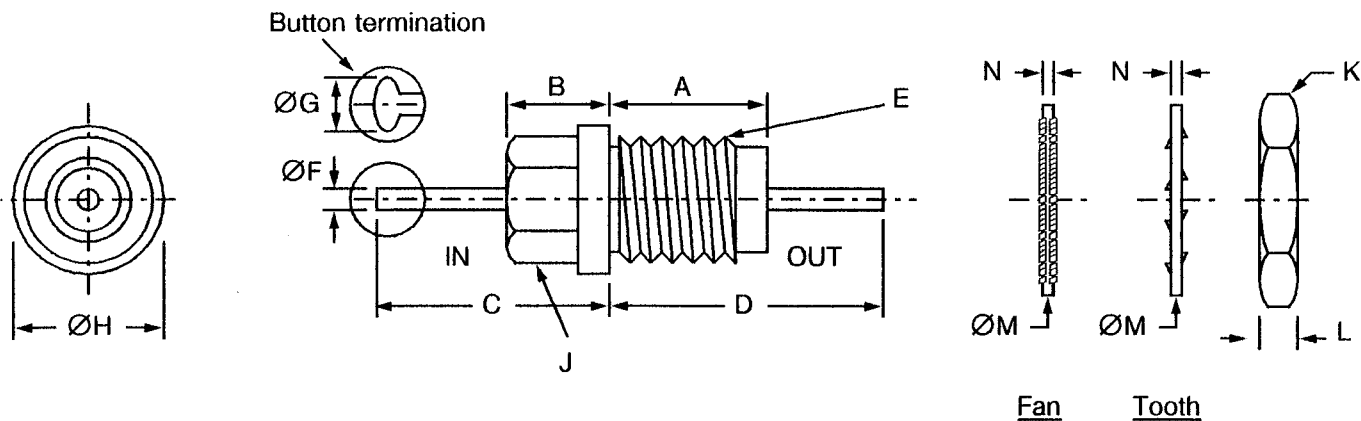
**FIGURE 2(a) - CASE SIZE 1**



**FIGURE 2(b) - CASE SIZE 2**



**FIGURE 2(c) - CASE SIZE 3**



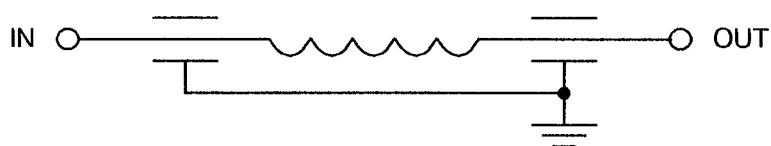
**FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)**

Symbol	Case Size 1		Case Size 2		Case Size 3		Notes
	Millimetres		Millimetres		Millimetres		
	Min.	Max.	Min.	Max.	Min.	Max.	
A	10.40	10.60	6.90	7.10	7.90	8.10	
B	6.90	7.10	4.90	5.10	3.90	4.10	
C	-	12.00	-	10.00	-	9.00	1, 2
D	-	20.00	-	20.00	-	23.00	1, 2
E	See Table 1(a)		See Table 1(a)		See Table 1(a)		Thread
ØF	0.72	0.88	0.72	0.88	0.72	0.88	
ØG	1.00	1.20	1.00	1.20	1.00	1.20	3
ØH	6.90	7.10	-	-	6.90	7.10	
J	4.90	5.00	5.90	6.00	4.90	5.00	
K	-	8.00	-	8.00	-	8.00	Variants 01 to 14
	-	7.00	-	7.00	-	7.00	Variants 15 to 28
L	-	2.50	-	2.50	-	2.50	Variants 01 to 14
	-	3.00	-	3.00	-	3.00	Variants 15 to 28
ØM	-	9.40	-	9.40	-	9.40	Variants 01 to 14
	-	10.20	-	10.20	-	10.20	Variants 15 to 28
N	-	0.40	-	0.40	-	0.40	Variants 01 to 14
	-	0.60	-	0.60	-	0.60	Variants 15 to 28

**NOTES**

1. Lead finish shall commence not more than 1.5mm from encapsulant.
2. The terminals are defined as rigid.
3. Applicable only to Variants 08 to 14 and 22 to 28.

**FIGURE 3 - FUNCTIONAL DIAGRAM**





#### **4. REQUIREMENTS**

##### **4.1 GENERAL**

The complete requirements for procurement of the components specified herein are stated in this specification and ESA/SCC Generic Specification No. 3008 for Capacitors and Capacitor Filters, Feedthrough. Deviations from the Generic Specification, applicable to this specification only, are detailed 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)**

(a) Para. 9.7, External Visual Inspection: For variants with a silver plated case, a change of shade is acceptable.

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

(a) Para. 9.7, External Visual Inspection: For variants with a silver plated case, a change of shade is acceptable.

###### **4.2.4 Deviations from Qualification Tests (Chart IV)**

(a) Para. 9.7, External Visual Inspection: For variants with a silver plated case, a change of shade is acceptable.

(b) Para. 9.12, Accelerated Damp Heat: Shall not be performed.

(c) Para. 9.15, Immersion: Shall not be performed.

###### **4.2.5 Deviations from Lot Acceptance Tests (Chart V)**

(a) Para. 9.7, External Visual Inspection: For variants with a silver plated case, a change of shade is acceptable.

(b) Para. 9.15, Immersion: Shall not be performed.

##### **4.3 MECHANICAL REQUIREMENTS**

###### **4.3.1 Dimension Check**

The dimensions of the components specified herein shall be verified in accordance with the requirements set out in Para. 9.5 of ESA/SCC Generic Specification No. 3008 and they shall conform to those shown in Figure 2 of this specification.

###### **4.3.2 Weight**

The maximum weight of the components specified herein shall be as given in Table 1(a).



#### 4.3.3 Robustness of Terminations

The requirements for the robustness of terminations tests are specified in Section 9 of ESA/SCC Generic Specification No. 3008. The leads are defined as "Rigid".

- Test Ua1, Tensile: The load shall be 10N.

#### 4.3.4 Solderability

The requirements for solderability testing are specified in Section 9 of ESA/SCC Generic Specification No. 3008.

Test Method 1 shall apply and a thermal screen of 1.6mm may be used. The terminal shall be immersed up to 2.0mm from the body.

#### 4.3.5 Seal Test

Not applicable.

### 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 components 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 shall be silver plated brass with resin sealing the filter element.

#### 4.4.2 Lead Material and Finish

The lead material shall be Type 'A' with Type '10' finish in accordance with the requirements of ESA/SCC Basic Specification No. 23500.

#### 4.4.3 Accessories

Nut : As per Figure 2, brass, silver-plated.

Lock-Washer : As per Figure 2, bronze, silver-plated.

### 4.5 MARKING

#### 4.5.1 General

The marking of 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.

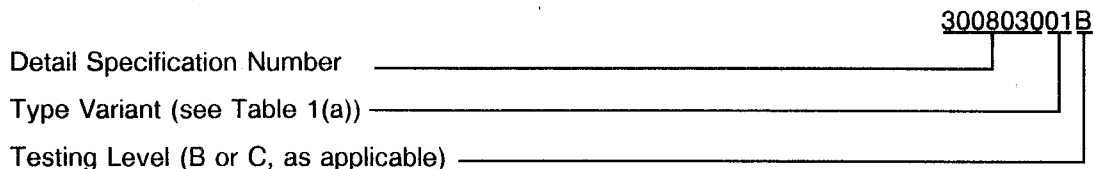


4.5.2 Lead Identification

Not applicable.

4.5.3 The SCC Component Number

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



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, 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. Measurements shall be performed at  $T_{amb} = 125(+0 - 5)$  °C and  $-55(+5 - 0)$  °C respectively.

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 as specified in Table 4 of this specification. Unless otherwise stated, measurements shall be performed at  $T_{amb} = +22 \pm 3$  °C. The parameter drift values ( $\Delta$ ) applicable to the parameters scheduled shall not be exceeded. In addition to these drift value requirements for a given parameter, the appropriate limit values 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. 3008. The conditions for burn-in shall be as specified in Table 5(a) of this specification.

4.7.3 Electrical Circuit for Burn-in (Figure 5)

Not applicable.

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

No.	Characteristics	Symbol	ESA/SCC 3008 Test Method	Test Conditions	Limits		Unit
					Min	Max	
1	Voltage Drop	$V_{dr}$	Para. 9.4.1.5	$I_R = 10A$	-	Note 1	V
2	Voltage Proof	VP	Para. 9.4.1.2		Note 2	-	V
3	Insulation Resistance	Ri	Para. 9.4.1.3	Para. 9.4.1.3	Note 3	-	MΩ

**NOTES**

1. See Column 5 of Table 1(a).
2. See Column 4 of Table 1(a).
3. See Column 3(a) of Table 1(a).

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

No.	Characteristics	Symbol	ESA/SCC 3008 Test Method	Test Conditions	Limits		Unit
					Min	Max	
4	Insertion Loss	$I_{L1}$	Para. 9.4.1.4	f = 10MHz Note 1	Note 2	-	dB
5	Insertion Loss	$I_{L2}$	Para. 9.4.1.4	f = 50MHz Note 3	Note 2	-	dB
6	Insertion Loss	$I_{L3}$	Para. 9.4.1.4	f = 100MHz Note 1	Note 2	-	dB
7	Insertion Loss	$I_{L4}$	Para. 9.4.1.4	f = 500MHz Note 1	Note 2	-	dB
8	Insertion Loss	$I_{L5}$	Para. 9.4.1.4	f = 1.0GHz Note 1	Note 2	-	dB
9	Capacitance	C	Para. 9.4.1.1	Para. 9.4.1.1	Note 4	-	pF

**NOTES**

1. Measurements at rated current to be made only during Chart IV testing in Subgroups II or III. Measurements without load current to be made during Charts II, III and V.
2. See Column 9 of Table 1(a).
3. Measurements at this frequency to be made only during Chart IV testing.
4. See Column 8 of Table 1(a).



**TABLE 3 - ELECTRICAL MEASUREMENTS AT HIGH AND LOW TEMPERATURES**

No.	Characteristics	Symbol	ESA/SCC 3008 Test Method	Test Conditions (Note 1)	Limits		Unit
					Min	Max	
3	Insulation Resistance	R <sub>i</sub>	Para. 9.4.1.3	Para. 9.4.1.3 Note 2	Note 3	-	MΩ
4	Insertion Loss	I <sub>L1</sub>	Para. 9.4.1.4	f = 10MHz No current.	Note 4	-	dB
6	Insertion Loss	I <sub>L3</sub>	Para. 9.4.1.4	f = 100MHz No current.	Note 4	-	dB
8	Insertion Loss	I <sub>L5</sub>	Para. 9.4.1.4	f = 1.0GHz No current.	Note 4	-	dB

**NOTES**

1. If more than 20 units have to be measured, the measurement shall be performed on a sample basis in accordance with Inspection Level I, Table IIA, AQL = 1.0% of IEC Publication No. 410.
2. Insulation resistance is to be performed only at high temperature.
3. See Column 3(b) of Table 1(a).
4. See Column 9 of Table 1(a).



**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 ( $\Delta$ )	Unit
9	Capacitance Change	$\frac{\Delta C}{C}$	As per Table 2	As per Table 2	$\pm 10$	%

**TABLE 5(a) - CONDITIONS FOR BURN-IN TESTS**

No.	Characteristic	Symbol	Condition	Unit
1	Ambient Temperature	$T_{amb}$	+ 125(+ 0 - 3)	$^{\circ}C$
2	Test Voltage	$V_T$	$2 \times U_R$ at + 125 $^{\circ}C$ Note 1	V

**NOTES**1. Applied between one terminal and the case. See Column 2(b) of Table 1(a) for value of  $U_R$ .**TABLE 5(b) - CONDITIONS FOR OPERATING LIFE TESTS**

No.	Characteristic	Symbol	Condition	Unit
1	Ambient Temperature	$T_{amb}$	+ 125(+ 0 - 3)	$^{\circ}C$
2	Test Voltage	$V_T$	$2 \times U_R$ at + 125 $^{\circ}C$ Note 1	V
3	Rated Current	$I_R$	10 Note 2	A

**NOTES**

1. Applied between one terminal and the case. See Column 2(b) of Table 1(a) for value of  $U_R$ .  
 2. To flow between the terminals.

**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. 3008)

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 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  $T_{amb} = +22 \pm 3$  °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 testing are as 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 Tests (Part of Endurance Testing)

The requirements for operating life test are specified in Section 9 of ESA/SCC Generic Specification No. 3008. The conditions for operating life testing shall be as specified in Table 5(b) of this specification.

4.8.5 Electrical Circuit for Operating Life Tests (Figure 5)

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. 3008		MEASUREMENTS AND INSPECTIONS		SYMBOL	LIMITS		UNIT
	ENVIRONMENTAL AND ENDURANCE TESTS (1)	TEST METHOD AND CONDITIONS	IDENTIFICATION	CONDITIONS		MIN.	MAX.	
01	Seal Test (Hermetically Sealed)	Para. 9.6	Not applicable					
02	External Visual Inspection	Para. 9.7 and Paras 4.2.4 and 4.2.5 of this spec.	<b>Final Measurements</b> Visual Inspection	ESA/SCC No. 20500	-	-	-	
03	Temperature Rise	Para. 9.9	Temperature Rise	Rated Current (3)	-	-	25	°C
04	Shock	Para. 9.10	<b>Measurements during Tests</b>  <b>Final Measurements</b> Visual Examination Insertion Loss	100% $U_R$ (2) applied No Open or Short Circuits > 0.1ms  No Mechanical Damage Table 2 Items 4 to 8	  $I_L$	  Table 2	  -	
05	Vibration	Para. 9.11	<b>Measurements during Tests</b> During Last Cycle  <b>Final Measurements</b> Visual Examination Insertion Loss	Rated Current (3) and 100% $U_R$ (2) applied No Open or Short Circuits > 0.1ms  No Mechanical Damage Table 2 Items 4 to 8	  $I_L$	  Table 2	  -	
06	Accelerated Damp Heat	Para. 9.12 and Para. 4.2.4 of this spec.	Not applicable					
07	Low Air Pressure	Para. 9.13	<b>Measurements during Tests</b> Voltage Proof  Visual Examination  <b>Final Measurements</b> Visual Examination	During last 5 minutes Table 2 Item 2  No breakdown, flashover, deformation or seepage  No breakdown, flashover, deformation or seepage	VP  -	125% $U_R$ (2)  -	  -	
08	Robustness of Terminations	Para. 9.14 and Para. 4.3.3 of this spec.	<b>Final Measurements</b> Visual Examination Voltage Drop	No damage Table 2 Item 1	- $V_{dr}$	- -	- Table 2	
09	Immersion	Para. 9.15 and Paras 4.2.4 and 4.2.5 of this spec.	Not applicable					
10	Overload	Para. 9.16	<b>Final Measurements</b> Insulation Resistance Voltage Drop Visual Examination	140% of Rated Current (3) for 15 mins min.  Table 2 Item 3 Table 2 Item 1 No damage	  $R_i$ $V_{dr}$ -	Table 2  -	  - Table 2	


**NOTES**

1. The tests in this Table refer to either Chart IV or V and shall be used as applicable.
2. For  $U_R$ , see Column 2(a) of Table 1(a).
3. For  $I_R$ , see Column 7 of Table 1(a).
4. Greater than 50% of the value given in Table 2.
5. Greater than 10% of the value given in Table 2.

**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. 3008		MEASUREMENTS AND INSPECTIONS		SYMBOL	LIMITS		UNIT
	ENVIRONMENTAL AND ENDURANCE TESTS (1)	TEST METHOD AND CONDITIONS	IDENTIFICATION	CONDITIONS		MIN.	MAX.	
11	Resistance to Soldering Heat	Para. 9.17	<b>Final Measurements</b> Visual Examination Insulation Resistance Insertion Loss	After recovery of 1 to 2 hrs No damage Table 2 Item 3 Table 2 Items 4 to 8	- R <sub>i</sub> I <sub>L</sub>	- Table 2 Table 2	- - -	
12	Solderability	Para. 9.18 and Para. 4.3.4 of this spec.	<b>Final Measurements</b> Visual Examination	IEC No. 68-2-20 Para. 4.6.4, 4.7.4 or 4.9.3	-	-	-	
13	Operating Life	Para. 9.19	<b>Initial Measurements</b> Capacitance <b>During Tests</b>  <b>Intermediate Measurements</b> Insulation Resistance Voltage Proof Insulation Resistance Insertion Loss Capacitance Change <b>Final Measurements</b> Insulation Resistance Voltage Proof Insulation Resistance Insertion Loss Capacitance Change	Table 2 Item 9 No Open or Short Circuit  Table 3 Item 3 After 24 hrs recovery Table 2 Item 2  Table 2 Item 3 Table 2 Items 4 to 8 Table 2 Item 9  Table 3 Item 3 After 24 hrs recovery Table 2 Item 2  Table 2 Item 3 Table 2 Items 4 to 8 Table 2 Item 9	C -  R <sub>i</sub> VP  R <sub>i</sub> I <sub>L</sub> ΔC/C  R <sub>i</sub> VP  R <sub>i</sub> I <sub>L</sub> ΔC/C	Record values -  Table 3 90% U <sub>R</sub> (2) (4) Table 2 - Table 3 90% U <sub>R</sub> (2) (4) Table 2 - Table 4	- -  - -  - -  - -  - -  - -  - -  - -  Table 4	
14	Corrosion	Para. 9.20	<b>Final Measurements</b> Visual Examination	No corrosion, damage or obliteration of marking	-	-	-	
15	Permanence of Marking	Para. 9.21	<b>Final Measurements</b> Visual Examination	No corrosion or obliteration of marking	-	-	-	
16	Damp Heat (Non-hermetically Sealed)	Para. 9.24	<b>Final Measurements</b> Visual Examination Insulation Resistance	After 4 hrs recovery No cracking or encapsulant separation Table 2 Item 3	- R <sub>i</sub>	- (5)	- -	

**NOTES:** See Page 17.

	<p style="text-align: center;">ESA/SCC Detail Specification No. 3008/030</p>	<p style="text-align: right;">PAGE 19 ISSUE 1</p>
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**APPENDIX 'A'**

Page 1 of 1

AGREED DEVIATIONS FOR EUROFARAD (F)

ITEMS AFFECTED	DESCRIPTION OF DEVIATIONS
Paras. 4.2.2 and 4.2.3	(a) Para. 9.4.1.5, Voltage Drop: Voltage Drop may be performed as a d.c. Resistance measurement in accordance with MIL-STD-202, Method 303. In this case, the maximum value of d.c. Resistance (Rs) shall be as specified in Column 6 of Table 1(a).