

Page 1 of 20

CAPACITOR FILTERS, C-TYPE, FEEDTHROUGH, ELECTROMAGNETIC INTERFERENCE SUPPRESSION, HERMETICALLY SEALED (ONE END ONLY)

BASED ON TYPE SFC030

ESCC Detail Specification No. 3008/020

Issue 2 January 2013





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No. 3008/020 ISSUE 2

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



pecification PAGE 4

ISSUE 2

No. 3008/020

TABLE OF CONTENTS

1	GENERAL	6
1.1	SCOPE	6
1.2	COMPONENT TYPE VARIANTS AND RANGE OF COMPONENTS	6
1.3	MAXIMUM RATINGS	6
1.4	PARAMETER DERATING INFORMATION	6
1.5	PHYSICAL DIMENSIONS	6
1.6	FUNCTIONAL DIAGRAM	6
2	APPLICABLE DOCUMENTS	6
3	TERMS, DEFINITIONS, ABBREVIATIONS, SYMBOLS AND UNITS	6
4	REQUIREMENTS	10
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 (Chart II)	10
4.2.3	Deviations from Burn-in and Electrical Measurements (Chart III)	10
4.2.4	Deviations from Qualification Tests (Chart IV)	10
4.2.5	Deviations from Lot Acceptance Tests (Chart V)	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	11
4.5.3	The ESCC Component Number	12
4.5.4	Electrical Characteristics and Ratings	12
4.5.5	Traceability Information	13
4.6	ELECTRICAL MEASUREMENTS	13
4.6.1	Electrical Measurements at Room Temperature	13
4.6.2	Electrical Measurements at High and Low Temperatures	13



PAGE 5

No. 3008/020 ISSUE 2

4.6.3	Circuits for Electrical Measurements (Figure 4)	13
4.7	BURN-IN TESTS	13
4.7.1	Parameter Drift Values	13
4.7.2	Conditions for Burn-in	13
4.7.3	Electrical Circuits for Burn-in (Figure 5)	13
4.8	ENVIRONMENTAL AND ENDURANCE TESTS (CHART IV AND V OF ESCC GENERIC SPECIFICATION NO. 3008)	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 (Part of Endurance Testing)	16
4.8.5	Electrical Circuit for Operating Life Tests (Figure 5)	16
APPENDI)	(A	20



1 **GENERAL**

1.1 SCOPE

This specification details the ratings, physical and electrical characteristics, test and inspection data for a Capacitor Filter, C-Type, Feedthrough, Electromagnetic Interference Suppression, Hermetically Sealed (One End Only), based on Type SFC030. It shall be read in conjunction with ESCC Generic Specification No. 3008, the requirements of which are supplemented herein.

1.2 COMPONENT TYPE VARIANTS AND RANGE OF COMPONENTS

Variants of the basic type capacitor filters and the range of components 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 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.

PHYSICAL DIMENSIONS 1.5

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) ESCC 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 ESCC Basic Specification No. 21300 shall apply. In addition, the following abbreviations are used:

 V_T = Test Voltage.



TABLE 1(a) - TYPE VARIANTS AND RANGE OF COMPONENTS

(1)		(2)	(3)	(4)	(5)	(6)	(7)
Variant	Rated Voltage		Capacitance	Voltage	Voltage	DC	Rated
(Notes	U	R	Range	Proof	Drop	Resistance	Current
1 and 2)	(\	/)	С	VP	V_{dr}	Rs	I_R
			(pF)	(V)	(V)	$(m\Omega)$	(A)
	(a)	(b)	(±20%)				
	-55°C/+85°C	+125°C	(E6 Series)				
01	50	25	470 to 22000	125	0.05	5	5
02	100	75	470 to 6800	250	0.05	5	5
03	200	150	470 to 2200	500	0.05	5	5
04	50	25	470 to 22000	125	0.05	5	5
05	100	75	470 to 6800	250	0.05	5	5
06	200	150	470 to 2200	500	0.05	5	5
07	50	25	470 to 22000	125	0.1	10	1
08	100	75	470 to 6800	250	0.1	10	1
09	200	150	470 to 2200	500	0.1	10	1
10	50	25	470 to 22000	125	0.1	10	1
11	100	75	470 to 6800	250	0.1	10	1
12	200	150	470 to 2200	500	0.1	10	1

NOTES

1. See the table below for Insertion Loss requirements according to Capacitance value:

ee the table below for insertion coss requirements according to Capacitance value.									
(8)		(9)							
Capacitance		Insertion Loss (I _L) (dB)							
(pF)									
(E6 Series)	10MHz	50MHz	100MHz	500MHz	1.0GHz	5.0GHz	10GHz		
470	-	8	14	28	34	48	54		
680	-	11	17	31	37	51	57		
1000	-	15	21	35	41	55	61		
1500	1	18	24	38	44	58	64		
2200	1	21	27	41	48	61	68		
3300	11	25	31	45	52	60	70		
4700	14	28	34	48	54	68	70		
6800	17	31	37	51	57	70	70		
10000	21	35	41	55	61	70	70		
15000	25	39	45	59	65	70	70		
22000	28	42	48	54	68	70	70		

2. See the table below and Figure 2 for physical characteristics:

Variants	Sea	Case	
	IN	OUT	Material
01 to 03	Resin	Glass	Steel
04 to 06	Glass	Resin	Steel
07 to 09	Resin	Glass	Kovar
10 to 12	Glass	Resin	Kovar



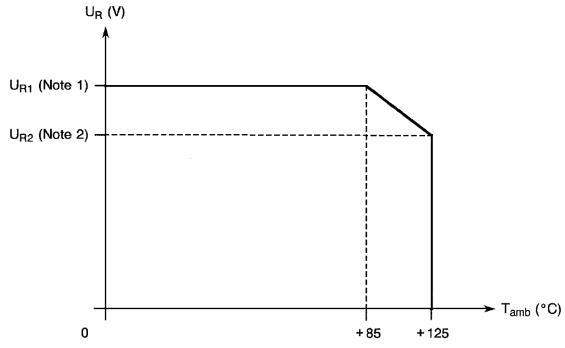
TABLE 1(b) MAXIMUM RATINGS

No.	Characteristic	Symbol	Maximum Ratings	Unit	Remarks
1	Rated DC 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	mV	
3	DC Resistance	Rs	See Table 1(a) Column 6	mΩ	
4	Rated Current	I _R	See Table 1(a) Column 7	Α	Note 3
5	Operating Temperature Range	T _{op}	-55 to +125	°C	T_{amb}
6	Storage Temperature Range	T _{stg}	-55 to +125	°C	
7	Soldering Temperature Leads Case	T _{sol}	+240 +280	°C	Note 4 Note 5

NOTES

- 1. For derating at $T_{amb} > 85$ °C, see Figure 1.
- The addition of DC applied voltage and ripple voltage shall never exceed the rated DC voltage.
- 3. DC and low frequency.
- 4. Duration 10 seconds maximum at a distance of not less than 2mm from the body and the same lead shall not be resoldered until 3 minutes have elapsed.
- 5. Duration 6 seconds maximum.

FIGURE 1 - PARAMETER DERATING INFORMATION



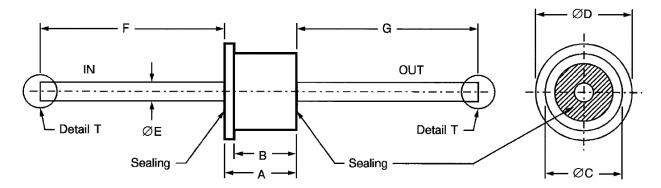
Rated Voltage versus Temperature

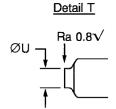
NOTES

- 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



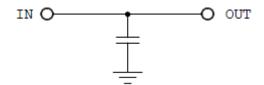


Symbol	Variants 01 to 06		nts 01 to 06 Variants 07 to 09		Variants 10 to 12		Notes
	Millim	netres	Millimetres		Millimetres		
	Min	Max	Min	Max	Min	Max	
Α	2.7	2.9	2.7	2.9	2.7	2.9	
В	2.2	2.4	2.2	2.4	2.2	2.4	
ØC	3.1	3.3	3.1	3.3	3.1	3.3	
ØD	3.9	4.1	3.9	4.1	3.9	4.1	
ØE	0.75	0.88	0.75	0.88	0.75	0.88	1, 2, 3
F	6	7	1	2	6	7	
G	6	7	6	7	1	2	
Detail T	N/A	N/A	IN Terminal		OUT Te	erminal	2
ØU	-	-	0.4	-	0.4	-	

NOTES

- 1. The leads are defined as rigid.
- 2. Detail T defines specific area for thermo-compression bonding at the end of the lead. See Variants for the terminals concerned.
- 3. Lead finish shall commence not more than 1.5mm from encapsulant.

FIGURE 3 - FUNCTIONAL DIAGRAM



No. 3008/020 ISSUE 2

4 REQUIREMENTS

4.1 GENERAL

The complete requirements for procurement of the components specified herein are stated in this specification and ESCC 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 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 <u>Deviations From Special In-Process Controls</u>

None.

4.2.2 Deviations from Final Production Tests (Chart II)

- (a) Para. 9.2, Rapid Change of Temperature: The requirement for the components to be mounted may be waived.
- (b) Para. 9.3, Vibration: Shall not be performed.
- (c) Para. 9.6, Seal Test: Shall not be performed.

4.2.3 <u>Deviations from Burn-in and Electrical Measurements (Chart III)</u>

(a) Para. 9.6, Seal Test: Shall not be performed.

4.2.4 Deviations from Qualification Tests (Chart IV)

- (a) Para. 9.6, Seal Test: Shall not be performed.
- (b) Para. 9.12, Accelerated Damp Heat: Shall not be performed.
- (c) Para. 9.15, Immersion: Shall not be performed.
- (d) Para. 9.17, Resistance to Soldering Heat: May be performed prior to Para. 9.11, Vibration.
- (e) Para. 9.18, Solderability: May be performed prior to Para. 9.10, Shock.
- (f) Para. 9.19, Operating Life: At intermediate and final measurements, Insertion Loss shall not be performed.

4.2.5 Deviations from Lot Acceptance Tests (Chart V)

- (a) Para. 9.6, Seal Test: Shall not be performed.
- (b) Para. 9.15, Immersion: Shall not be performed.
- (c) Para. 9.19, Operating Life: At intermediate and final measurements, Insertion Loss shall not be performed.

4.3 <u>MECHANICAL REQUIREMENTS</u>

4.3.1 <u>Dimension Check</u>

The dimensions of the components specified herein shall be verified in accordance with the requirements set out in Para. 9.5 of ESCC 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 1 grammes.

No. 3008/020 ISSUE 2

4.3.3 Robustness of Terminations

The requirements for the robustness of terminations tests are specified in Section 9 of ESCC 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 ESCC 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 2mm from sealing.

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 gold plated steel or kovar (see Table 1(a)) and hermetically sealed at one end with hard glass seals and the other with potting encapsulant sealing the filter element.

4.4.2 Lead Material and Finish

The lead material shall be Type 'H' for Variants 01 to 06 and Type 'D' for Variants 07 to 12 with Type '7' finish in accordance with the requirements of ESCC Basic Specification No. 23500.

4.4.3 <u>Accessories</u>

None.

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 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 ESCC Component Number.
- (c) Electrical Characteristics and Ratings.
- (d) Traceability Information.

4.5.2 Lead Identification

Not applicable.



4.5.3 The ESCC Component Number

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

Example: 300802001B

Detail Specification Number: 3008020
Type Variant (see Table 1(a)): 01

Testing level (B or C, as applicable): B

4.5.4 <u>Electrical Characteristics and Ratings</u>

The electrical characteristics and ratings to be marked in the following order of precedence are:-

- (a) Capacitance Value.
- (b) Tolerance.
- (c) Rated Voltage.

The information shall be constituted and marked as follows:

Example: 682ME

Capacitance Value (6800pF): 682

• Tolerance (±20%): M

• Rated Voltage (100V): E

4.5.4.1 Capacitance Values

The capacitance values shall be expressed by means of the following codes. The unit quantity for marking shall be picofarads (pF).

Capacitance Value (pF)	Code
XX10 ¹	XX1
XX10 ²	XX2
XX10 ³	XX3

4.5.4.2 Tolerance

The tolerances on capacitance values shall be indicated by the code letters specified hereafter.

Tolerance (± %)	Code Letter
20	M

4.5.4.3 Rated Voltage

The rated voltage shall be indicated by the code letters specified hereafter.

Rated Voltage (U _R) (V)	Code Letter
50	С
100	E
200	G



ISSUE 2

4.5.5 <u>Traceability Information</u>

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

4.6 <u>ELECTRICAL MEASUREMENTS</u>

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

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 $T_{amb} = +125 (+0.5)^{\circ}C$ and $-55 (+5.0)^{\circ}C$ respectively.

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

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} = +22 ±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 ESCC Generic Specification No. 3008. The conditions for burn-in shall be as specified in Table 5(a) of this specification.

4.7.3 <u>Electrical Circuits for Burn-in (Figure 5)</u>

Not applicable.

No. 3008/020

TABLE 2 - ELECTRICAL MEASUREMENTS AT ROOM TEMPERATURE - DC PARAMETERS

No.	Characteristics	Symbol	ESCC 3008 Test Method	Test Conditions	Lin	nits	Unit
			rest Method		Min	Max	
1	Voltage Drop	V_{dr}	Para. 9.4.1.5	I _R = Note 1	-	Note 2	V
2	Voltage Proof	VP	Para. 9.4.1.2	V = 2.5U _R	Note 3	-	V
3	Insulation Resistance	Ri	Para. 9.4.1.3	Para. 9.4.1.3	10 ⁴	-	ΜΩ

NOTES

- 1. See Column 7 of Table 1(a).
- 2. See Column 5 of Table 1(a).
- 3. See Column 4 of Table 1(a).

TABLE 2 - ELECTRICAL MEASUREMENTS AT ROOM TEMPERATURE - AC PARAMETERS

No.	Characteristics	Symbol	ESCC 3008	Test Conditions	Limits		Unit
			Test Method		Min	Max	
4	Insertion Loss	I _{L1}	Para. 9.4.1.4	f = 10MHz Note 1	Note 2	1	dB
5	Insertion Loss	l _{L2}	Para. 9.4.1.4	f = 50MHz Note 3	Note 2	ı	dB
6	Insertion Loss	I _{L3}	Para. 9.4.1.4	f = 100MHz Note 1	Note 2	ı	dB
7	Insertion Loss	I _{L4}	Para. 9.4.1.4	f = 500MHz Note 3	Note 2	-	dB
8	Insertion Loss	I _{L5}	Para. 9.4.1.4	f = 1.0GHz Note 1	Note 2	-	dB
9	Insertion Loss	I _{L6}	Para. 9.4.1.4	f = 5.0MHz Note 3	Note 2	-	dB
10	Insertion Loss	I _{L7}	Para. 9.4.1.4	f = 100GHz Note 3	Note 2	-	dB
11	Capacitance	С	Para. 9.4.1.1	Para. 9.4.1.1	Note 4	1	pF

NOTES

- 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 3 of Table 1(a).

ISSUE 2

TABLE 3 - ELECTRICAL MEASUREMENTS AT HIGH AND LOW TEMPERATURES

No.	Characteristics	Symbol	ESCC 3008	Test Conditions	Limits		Unit
			Test Method	(Note 1)	Min	Max	
3	Insulation Resistance	Ri	Para. 9.4.1.3	Para. 9.4.1.3	10 ³	-	МΩ
11	Capacitance Change	ΔC/C	Para. 9.4.1.1	Para. 9.4.1.1	-20	+20	%

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% of IEC Publication No. 410.
- 2. Insulation resistance is to be performed only at high temperature.

FIGURE 4 - CIRCUITS FOR ELECTRICAL MEASUREMENTS

Not applicable.

TABLE 4 - PARAMETER DRIFT VALUES

No.	Characteristics	Symbol	Spec. and/or	Test	Change Limits	Unit
			Test Method	Conditions	(Δ)	
11	Capacitance	ΔC/C	As per Table 2	As per Table 2	±10	%
	Change					

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

No.	Characteristic	Symbol	Condition	Unit
1	Ambient Temperature	T _{amb}	+125 (+0 -3)	°C
2	Test Voltage	V _T	2 x U _R at +125°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)	°C
2	Test Voltage	V _T	2 x U _R at +125°C Note 1	V
3	Rated Current	I _R	Note 2	Α

NOTES

- 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. See Column 7 of Table 1(a) for value of I_R.

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

Not applicable.



ISSUE 2

4.8 <u>ENVIRONMENTAL AND ENDURANCE TESTS (CHART IV AND V OF ESCC GENERIC</u> SPECIFICATION NO. 3008)

4.8.1 <u>Measurements and Inspections on Completion of Environmental Tests</u>

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 at Intermediate Points During Endurance Tests</u>

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 ±3°C.

4.8.3 <u>Measurements and Inspections on Completion of Endurance Tests</u>

The parameters to be measured and inspections to be performed on completion of endurance testing 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 Tests (Part of Endurance Testing)

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

4.8.5 <u>Electrical Circuit for Operating Life Tests (Figure 5)</u> 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. 3008		Measurements a	and Inspections	Symbols	Limits	5	Unit
	Environmental and Endurance Tests (1)	Test Method and Conditions	Identification	Conditions		Min	Max	
01	Seal Test (Hermetically Sealed)	Para. 9.6 and Paras 4.2.4 and 4.2.5 of this spec	Not applicable					
02	External Visual Inspection	Para. 9.7	Final Measurements Visual Inspection	ESCC No. 20500	-	-	-	
03	Temperature Rise	Para. 9.9	Temperature Rise	Rated Current (3)	-	-	25	°C
04	Shock	Para. 9.10	Measurements during Tests Final Measurements	100% U _R (2) applied No Open or Short Circuits > 0.1ms	-	-	-	
			Visual Examination	No Mechanical Damage	-	-	-	
			Insertion Loss	Table 2 Item 4 to 10	Iι	Table 2	-	
05	Vibration	Para. 9.11	Measurements during Tests	Rated Current (3) and 100% U _R (2) applied	-	-	-	
			During Last Cycle	No Open or Short Circuits > 0.1ms	-	-	-	
			Final Measurements					
			Visual Examination	No Mechanical Damage	-	-	-	
			Insertion Loss	Table 2 Item 4 to 10	Iι	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	Measurements during Tests Voltage Proof Visual Examination	During last 5 minutes Table 2 Item 2 No breakdown, flashover, deformation or seepage	VP -	125% U _R (2) -	-	
			Final Measurements Visual Examination	No breakdown, flashover, deformation or seepage	-	-	-	
08	Robustness of Terminations	Para. 9.14 and 4.3.3. of this	Final Measurements Visual Examination	No damage	-	-	-	
		spec	Voltage Drop	Table 2 Item 1	V_{dr}	-	Table 2	



No. 3008/020

PAGE 18

ISSUE 2

No.	ESCC Generic	Spec. No. 3008	Measurements a	and Inspections	Symbols	Limits		Unit
	Environmental and Endurance Tests (1)	Test Method and Conditions	Identification	Conditions		Min	Max	
09	Immersion	Para. 9.15 and Paras. 4.2.4 and 4.2.5 of this spec	Not applicable					
10	Overload	Para. 9.16		140% of Rated Current (3) for 15 mins min.	-	-	-	
			Final Measurements					
			Insulation Resistance	Table 2 Item 3	Ri	Table 2	-	
			Voltage Drop	Table 2 Item 1	V_{dr}	-	Table 2	
			Visual Examination	No damage	-	-	-	
11	Resistance to Soldering Heat	Para. 9.17 and Para. 4.2.4 of	Final Measurements	After recovery of 1 to 2 hrs				
		this spec	Visual Examination	No damage	-	-	-	
			Insulation Resistance	Table 2 Item 3	Ri	Table 2	-	
			Insertion Loss	Table 2 Item 4 to 10	lι	Table 2	-	
12	Solderability	Para. 9.18 and Paras 4.2.4 and 4.3.4 of this spec	Final Measurements Visual Examination	IEC No. 68-2-20 Para. 4.6.4, 4.7.4 or 4.9.3	-	-	-	
13	Operating Life	Para. 9.19	Initial					
			Measurements Capacitance	Table 2 Item 11	С	Record V	alues	
			During Tests	No Open or Short Circuit	-	-	-	
			Intermediate Measurements					
			Insulation Resistance	Table 3 Item 3	Ri	Table 3	-	
				After 24 hrs recovery				
			Voltage Proof	Table 2 Item 2	VP	90% U _R (2)	-	
			Insulation Resistance	Table 2 Item 3	Ri	(4)	-	
			Capacitance Change	Table 2 Item 11	∆C/C	-	Table 4	
			Final Measurements					
			Insulation Resistance	Table 3 Item 3	Ri	Table 3	-	
				After 24 hrs recovery				
			Voltage Proof	Table 2 Item 2	VP	90% U _R (2)	_	
			Insulation Resistance	Table 2 Item 3	Ri	(4)		
			Capacitance Change	Table 2 Item 11	ΔC/C	· , ,	Table 4	
14	Corrosion	Para. 9.20	Final Measurements					
			Visual Examination	No corrosion, damage or obliteration of marking	-	-	-	



PAGE 19

No. 3008/020 ISSUE 2

No.	ESCC Generic	Spec. No. 3008	Measurements a	and Inspections	Symbols	Limits	3	Unit
	Environmental and Endurance Tests (1)	Test Method and Conditions	Identification	Conditions		Min	Max	
15	Permanence of Marking	Para. 9.21	Final Measurements Visual Examination	No corrosion or obliteration of marking	-	-	-	
16	Damp Heat (Non-hermetically Sealed)	Para. 9.24	Final Measurements Visual Examination Insulation Resistance	After 4 hrs recovery No cracking or encapsulant separation Table 2 Item 3	- Ri	(5)	-	

<u>NOTES</u>

- 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.



No. 3008/020

PAGE 20

ISSUE 2

APPENDIX A AGREED DEVIATIONS FOR EUROFARAD (F)

ITEMS AFFFECTED	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 DC Resistance measurement in accordance with MIL-STD-202, Method 303. In this case, the maximum value of DC Resistance (Rs) shall be as specified in Column 6 of Table 1(a).