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CAPACITORS, FIXED, CERAMIC DIELECTRIC, TYPE I, HIGH VOLTAGE, 1kV TO 5kV

BASED ON TYPES VR, CV AND CH

ESCC Detail Specification No. 3001/033

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DOCUMENTATION CHANGE NOTICE

(Refer to https://escies.org for ESCC DCR content)

DCR No.	CHANGE DESCRIPTION
1028	Specification updated to incorporate changes per DCR.



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1 <u>GENERAL</u>

1.1 <u>SCOPE</u>

This specification details the ratings, physical and electrical characteristics, and test and inspection data for the component type variants and/or the range of components specified below. It supplements the requirements of, and shall be read in conjunction with, the ESCC Generic Specification listed under Applicable Documents.

1.2 <u>APPLICABLE DOCUMENTS</u>

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

(a) ESCC Generic Specification No. 3001.

<u>TERMS, DEFINITIONS, ABBREVIATIONS, SYMBOLS AND UNITS</u> For the purpose of this specification, the terms, definitions, abbreviations, symbols and units specified in ESCC Basic Specification No. 21300 shall apply.

1.4 THE ESCC COMPONENT NUMBER AND COMPONENT TYPE VARIANTS

1.4.1 <u>The ESCC Component Number</u> The ESCC Component Number shall be constituted as follows:

Example: 300103301470K1R

- Detail Specification Reference: 3001033
- Component Type Variant Number: 01 (as required)
- Characteristic code: Capacitance Value (47pF): 470 (as required)
- Characteristic code: Capacitance Tolerance (±10%): K (as required)
- Characteristic code: Temperature Coefficient (±30 ×10⁻⁶/°C): 1
- Rating code: Rated Voltage (3kV): R (as required)

1.4.1.1 Characteristics and Ratings Codes

Characteristics and ratings to be codified as part of the ESCC Component Number shall be as follows:

(a) Rated Capacitance Value, C_n, expressed by means of the following codes in accordance with ESCC Basic Specification No. 21700. The unit quantity shall be picofarad (pF).

Capacitance Value Cn (pF)	Code
XX 10 ⁰	XX0
XX 10 ¹	XX1
XX 10 ²	XX2
XX 10 ³	XX3
XX 10 ⁴	XX4

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(b) Capacitance Tolerance expressed by the following codes in accordance with ESCC Basic Specification No. 21700:

Tolerance (± %)	Code Letter
5	J
10	К
20	М

(c) Temperature Coefficient expressed by the following code:

Temperature Coefficient (± 10 ⁻⁶ /°C)	Code			
30	1			

(d) Rated Voltage, U_R , expressed by the following codes:

Rated Voltage U _R (kV)	Code Letter				
1	М				
2	Р				
3	R				
4	S				
5	Z				



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1.4.2 <u>Component Type Variants and Range of Components</u>

The component type variants and range of components applicable to this specification are as follows:

Variant Number		Package (Not	e Details te 1)		Capacitance Range C _n (pF) (Note 4)					
	Case Type (Note 2)	Lead Type	No. of Leads	Lead Mat. & Finish (Note 3)	Rated Voltage U _R = 1kV	Rated Voltage U _R = 2kV	Rated Voltage U _R = 3kV	Rated Voltage U _R =4kV	Rated Voltage U _R = 5kV	Max (g)
01	VR30S	Radial	2	A3	390 to 2200	56 to 470	33 to 330	-	-	1
02	VR30	Radial	2	A3	2700 to 5600	560 to 1800	390 to 680	-	-	1
03	VR40	Radial	2	A3	6800 to 15000	2200 to 4700	820 to 1500	390 to 820	330 to 560	2
04	VR50	Radial	2	A3	18000 to 33000	5600 to 10000	1800 to 2700	1000 to 1800	680 to 1200	3
05	VR66	Radial	2	A3	39000 to 68000	12000 to 18000	3300 to 5600	2200 to 3300	1500 to 2200	5
06	VR84	Radial	2	A3	82000 to 100000	22000 to 39000	6800 to 12000	3900 to 6800	2700 to 4700	8
07	VR90	Radial	2	A3	120000 to 330000	47000 to 100000	15000 to 33000	8200 to 18000	5600 to 12000	19
08	CV41	Radial	2	A3	6800 to 15000	2200 to 4700	820 to 1500	390 to 820	330 to 560	2
09	CH41	Straight DIL	6	N9	6800 to 15000	2200 to 4700	820 to 1500	390 to 820	330 to 560	2
10	CH41	L DIL	6	N9	6800 to 15000	2200 to 4700	820 to 1500	390 to 820	330 to 560	2
11	CV51	Radial	2	A3	18000 to 33000	5600 to 10000	1800 to 2700	1000 to 1800	680 to 1200	3
12	CH51	Straight DIL	8	N9	18000 to 33000	5600 to 10000	1800 to 2700	1000 to 1800	680 to 1200	3
13	CH51	L DIL	8	N9	18000 to 33000	5600 to 10000	1800 to 2700	1000 to 1800	680 to 1200	3
14	CV61	Radial	2	A3	39000 to 68000	12000 to 18000	3300 to 5600	2200 to 3300	1500 to 2200	5
15	CH61	Straight DIL	10	N9	39000 to 68000	12000 to 18000	3300 to 5600	2200 to 3300	1500 to 2200	5
16	CH61	L DIL	10	N9	39000 to 68000	12000 to 18000	3300 to 5600	2200 to 3300	1500 to 2200	5
17	CV76	Radial	2	A3	82000 to 100000	22000 to 39000	6800 to 12000	3900 to 6800	2700 to 4700	8
18	CH76	Straight DIL	12	N9	82000 to 100000	22000 to 39000	6800 to 12000	3900 to 6800	2700 to 4700	8
19	CH76	L DIL	12	N9	82000 to 100000	22000 to 39000	6800 to 12000	3900 to 6800	2700 to 4700	8
20	CV91	Radial	2	A3	120000 to 330000	47000 to 100000	15000 to 33000	8200 to 18000	5600 to 12000	19



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Variant Number		•	e Details te 1)				Weight Max (g)			
	Case Type (Note 2)	Lead Type	No. of Leads	Lead Mat. & Finish (Note 3)	Rated Voltage U _R = 1kV	Voltage Voltage Voltage Voltage				
21	CH91	Straight DIL	28	N9	120000 to 330000	47000 to 100000	15000 to 33000	8200 to 18000	5600 to 12000	19
22	CH91	L DIL	28	N9	120000 to 330000	47000 to 100000	15000 to 33000	8200 to 18000	5600 to 12000	19

NOTES:

1. See Para. 1.6.

2. For Variants 01 to 07 (case type VR) the body shall be coated with epoxy resin. Variants 08 to 22 (case types CV & CH) are classified as non-insulated.

- 3. The lead materials and finishes shall be in accordance with the requirements of ESCC Basic Specification No. 23500.
- 4. Available capacitance values and tolerances are as follows:
 - Tolerance: ±5%; value series: E12
 - Tolerance: ±10%; value series: E12
 - Tolerance: ±20%; value series: E12

1.5 MAXIMUM RATINGS

The maximum ratings shall not be exceeded at any time during use or storage.

Maximum ratings shall only be exceeded during testing to the extent specified in this specification and when stipulated in Test Methods and Procedures of the ESCC Generic Specification.

Characteristics	Symbols	Maximum Ratings	Units	Remarks
Rated Voltage	UR	1, 2, 3, 4, 5	kV	Note 1
Operating Temperature Range	T _{op}	-55 to +125	°C	Without derating. T _{amb}
Storage Temperature Range	T _{stg}	-55 to +125	°C	
Soldering Temperature	T _{sol}	+260	°C	Note 2

NOTES:

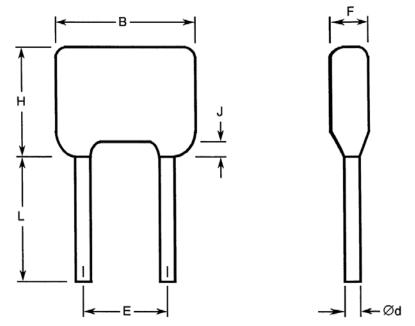
- 1. As required; See Para. 1.4.2.
- 2. Duration 5 seconds maximum at a distance of not less than 1.5mm from the body and the same lead shall not be resoldered until 3 minutes have elapsed.



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1.6 PHYSICAL DIMENSIONS

1.6.1 Case Type VR with Radial Leads



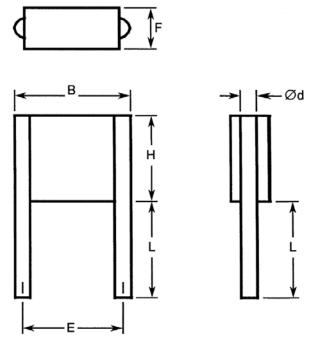
Variant	Case									
Number	Туре	B Max	Ø (Not	íd te 1)	E		F Max	H Max	J Max	L Min
			Min	Max	Min	Max				(Note 1)
01	VR30S	7.62	0.46	0.56	4.58	5.58	5	6.1	1.5	31.7
02	VR30	7.62	0.46	0.56	4.58	5.58	5	9.62	1.5	31.7
03	VR40	10.16	0.46	0.56	4.58	5.58	5	11.7	1.5	31.7
04	VR50	12.7	0.59	0.69	9.66	10.66	5.1	14.2	1.5	31.7
05	VR66	17.5	0.86	0.96	14.2	15.2	6.4	16.5	1.5	31.7
06	VR84	23.62	0.86	0.96	20.4	22	6.4	19.78	1.5	31.7
07	VR90	23.5	0.86	0.96	20.4	22	6.4	42	1.5	31.7

NOTES:

1. Both leads.



Case Type CV with Radial Leads 1.6.2

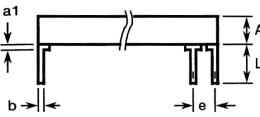


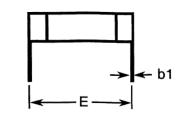
Variant	Case	Dimensions (mm)									
Number	Туре	B Max	Ød (Note 1)		E	E		H Max	l (Not	- te 1)	
			Min	Max	Min	Max			Min	Max	
08	CV41	10.6	0.65	0.75	7.7	8.7	3.8	8.7	22	28	
11	CV51	11.9	0.85	0.95	9.66	10.66	3.8	10.7	22	28	
14	CV61	16.5	0.85	0.95	14.74	15.74	3.8	13.6	22	28	
17	CV76	22.7	0.85	0.95	20.4	22	3.8	16.6	22	28	
20	CV91	22.7	1.15	1.25	20.4	22	3.8	40.6	22	28	

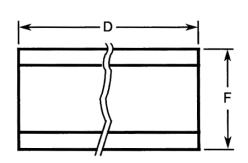
NOTES: 1. Bo Both leads.



Case Type CH with Straight DIL Leads 1.6.3





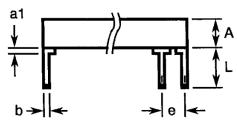


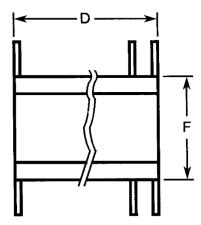
Variant	Case		Dimensions (mm)												
Number	Туре	A Max	a1 Max		b b1 (Note 1) (Note 1)		D Max	E (Note 1)		e (Note 1)		F Max	l (Not	- te 1)	
			(Note 1)	Min	Max	Min	Max		Min	Max	Min	Max		Min	Max
09	CH41	3.8	2	0.45	0.55	0.204	0.304	8.7	7.7	8.7	2.49	2.59	9.2	12	14
12	CH51	3.8	2	0.45	0.55	0.204	0.304	10.7	9.66	10.66	2.49	2.59	10.7	12	14
15	CH61	3.8	2	0.45	0.55	0.204	0.304	13.6	13.5	14.5	2.49	2.59	14.9	12	14
18	CH76	3.8	2	0.45	0.55	0.204	0.304	16.6	19.52	21.12	2.49	2.59	21.6	12	14
21	CH91	3.8	2	0.45	0.55	0.204	0.304	40.6	19.52	21.12	2.49	2.59	24	12	14

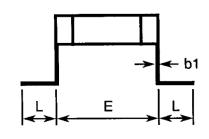
NOTES: 1. All leads.



1.6.4 <u>Case Type CH with L DIL Leads</u>







Variant	Case	Dimensions (mm)													
Number Type		A Max	a1 Max		o te 1)	b (Not	1 te 1)	D Max	E (Not		e (Not	e te 1)	F Max	l (Not	_ te 1)
			(Note 1)	Min	Max	Min	Max		Min	Max	Min	Max		Min	Max
10	CH41	3.8	2	0.45	0.55	0.204	0.304	8.7	7.7	8.7	2.49	2.59	9.2	2.04	3.04
13	CH51	3.8	2	0.45	0.55	0.204	0.304	10.7	9.66	10.66	2.49	2.59	10.7	2.04	3.04
16	CH61	3.8	2	0.45	0.55	0.204	0.304	13.6	13.5	14.5	2.49	2.59	14.9	2.04	3.04
19	CH76	3.8	2	0.45	0.55	0.204	0.304	16.6	19.52	21.12	2.49	2.59	21.6	2.04	3.04
22	CH91	3.8	2	0.45	0.55	0.204	0.304	40.6	19.52	21.12	2.49	2.59	24	2.04	3.04

NOTES:

1. All leads.

1.7 FUNCTIONAL DIAGRAM



NOTES:

1. For case type CH, all leads on each side of the component are connected to the same capacitor terminal.



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2 <u>REQUIREMENTS</u>

2.1 <u>GENERAL</u>

The complete requirements for procurement of the components specified herein are as stated in this specification and the ESCC Generic Specification. Permitted deviations from the Generic Specification, applicable to this specification only, are listed below.

Permitted deviations from the Generic Specification and this Detail Specification, formally agreed with specific Manufacturers on the basis that the alternative requirements are equivalent to the ESCC requirement and do not affect the component's reliability, are listed in the appendices attached to this specification.

2.1.1 Deviations from the Generic Specification

2.1.1.1 Deviations from Special In-Process Controls - Chart F2

- (a) Robustness of Terminations: Shall be replaced with a lead peel test as specified in Para. 2.3 herein.
- 2.1.1.2 Deviations from Qualification and Periodic Tests Chart F4
 - (a) Steady State Humidity (85/85): Not applicable and shall be replaced in Chart F4 Subgroup 1A of the Generic Specification by a Damp Heat Steady State test as follows:

Components shall be subjected to Test Cab of IEC Publication No. 60068-2-78. The following details shall apply:

- Test Conditions:
 - (a) Temperature: 40 ±2°C
 - (b) Relative humidity: 93 ±3%
 - (c) Duration: 56 days
 - (d) Bias during test: Half the samples shall have no voltage applied; the remaining half shall have 100V applied.
- Data Points:

Prior to the test, Capacitance shall be measured as specified in Para. 2.5 Intermediate and End-Point Electrical Measurements.

On completion of testing, the components shall be subjected to standard atmospheric conditions for recovery for 6 to 24 hours.

After recovery, the components shall be visually examined. There shall be no evidence of damage. Capacitance, Change in Capacitance, Tangent of Loss Angle, Insulation Resistance and Voltage Proof (Body Insulation) shall be measured as specified in Para. 2.5 Intermediate and End-Point Electrical Measurements. Change in Capacitance shall be related to the initial measurements.

2.2 MARKING

The marking shall be in accordance with the requirements of ESCC Basic Specification No. 21700 and as follows.

The information to be marked on the component shall be:

- (a) The ESCC qualified components symbol (for ESCC qualified components only).
- (b) The ESCC Component Number (see Para. 1.4.1).
- (c) Traceability information.



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2.3 ROBUSTNESS OF TERMINATIONS

The terminations of these devices are classified as rigid.

Robustness of Terminations shall be performed as a lead peel test on a sample of 5 components from each manufacturing lot with 0 failures allowed. The sample components shall be leaded but not encapsulated or coated. Where necessary, the leads of the component under test shall be bent through 90° in the plane of the joint such that a tensile force applied to the leads will result in a peeling force being applied to the leads' joint.

A tensile force shall be applied evenly across the length, on the capacitor terminal, to all leads on that side of the component together, until the lead joint peels. All leads shall be tested.

The minimum peeling force shall be as follows:

- For case types VR & CV: 8.9N
- For case type CH: 22.25N



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2.4 <u>ELECTRICAL MEASUREMENTS AT ROOM, HIGH AND LOW TEMPERATURES</u> Electrical measurements shall be performed at room, high and low temperatures.

2.4.1 <u>Room Temperature Electrical Measurements</u>

The measurements shall be performed at T_{amb} = +22 ±3°C.

Characteristics	Symbols	Test Method and	Tolerance	Lir	Units	
		Conditions	(± %)	Min	Max	
Capacitance	CA	ESCC No. 3001				pF
			5	0.95Cn	1.05Cn	
			10	0.9Cn	1.1C _n	
			20	0.8Cn	1.2Cn	
Tangent of Loss Angle	tgō	ESCC No. 3001	All	-	10 ×10 ⁻⁴	-
Insulation	RID	ESCC No. 3001	All			
Resistance (Dielectric)		C _n ≤ 10000pF		100	-	GΩ
		C _n > 10000pF		1000	-	GΩ.nF
Insulation Resistance (Body Insulation)	Rıb	ESCC No. 3001 Case type VR only Note 1	All			
		C _n ≤ 10000pF		100	-	GΩ
		C _n > 10000pF		1000	-	GΩ.nF
Voltage Proof	VPD	ESCC No. 3001	All			V
(Dielectric)		For U _R = 1000V		1.5U _R	-	
		For U _R ≥ 2000V		1.3U _R	-	
Voltage Proof (Body Insulation)	VPB	ESCC No. 3001 Case type VR only Note 1	All			V
		For U _R = 1000V		1.5U _R	-	
		For U _R ≥ 2000V		1.3U _R	-	

NOTES:

 The measurements shall be performed on a sample of 5 components from each manufacturing lot with 0 failures allowed. In the event of any failure a 100% inspection may be performed. In the case of a 100% inspection, a 1% total percent defective is allowed.



2.4.2 <u>High and Low Temperatures Electrical Measurements</u>

Characteristics	Symbols		Lin	Units	
		(Note 1)	Min	Max	
Insulation Resistance (Dielectric)	Rid	ESCC No. 3001 T _{amb} = +125 ±2°C Note 2			
		C _n ≤ 10000pF	10	-	GΩ
		C _n > 10000pF	100	-	GΩ.nF
Insulation Resistance (Body Insulation)	R _{IB}	ESCC No. 3001 $T_{amb} = +125 \pm 2^{\circ}C$ Case type VR only Note 2			
		C _n ≤ 10000pF	10	-	GΩ
		C _n > 10000pF	100	-	GΩ.nF
Temperature Coefficient	тс	ESCC No. 3001 T _{amb} = -55 ±2°C, +20 ±2°C, +125 ±2°C Note 3	-30	+30	10 ⁻⁶ /°C

NOTES:

- 1. The measurements shall be performed on a sample of 5 components from each manufacturing lot with 0 failures allowed. In the event of any failure a 100% inspection may be performed.
- 2. Guaranteed but not tested during Chart F3 of the Generic Specification; only tested in Temperature Characterisation during Chart F4 of the Generic Specification.
- 3. In the case of a 100% inspection, a 1% total percent defective is allowed.



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2.5 INTERMEDIATE AND END-POINT ELECTRICAL MEASUREMENTS

Unless otherwise specified, the measurements shall be performed at T_{amb} = +22 ±3°C.

Unless otherwise specified the test methods and test conditions shall be as per the corresponding test defined in Para. 2.4.1 Room Temperature Electrical Measurements.

Test Reference per ESCC	Characteristics	Symbols	Li	Units	
No. 3001			Min	Max	
Rapid Change of Temperature					
Initial Measurements	Capacitance	CA	No	ote 1	
Final Measurements	Capacitance	CA	No	ote 1	
	Change in Capacitance	$\Delta C_A/C_A$	-1	+1	%
	Tangent of Loss Angle	tgō	-	20 ×10 ⁻⁴	-
Damp Heat Steady State					
Initial Measurements	Capacitance	CA	No	ote 1	
Final Measurements	Capacitance	CA	No	ote 1	
	Change in Capacitance	ΔC _A /C _A	-2	+2	%
	Tangent of Loss Angle	tgδ	-	20 ×10 ⁻⁴	-
	Insulation Resistance (Dielectric):	RID			
	C _n ≤ 10000pF		10	-	GΩ
	C _n > 10000pF		100	-	GΩ.nF
	Insulation Resistance (Body Insulation) (Note 2):	R _{IB}			
	C _n ≤ 10000pF		10	-	GΩ
	C _n > 10000pF		100	-	GΩ.nF
	Voltage Proof (Body Insulation) (Note 2)	V _{PB}	No	ote 1	



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Test Reference per ESCC	Characteristics	Symbols	Li	Units	
No. 3001			Min	Max	
Operating Life				1	
Initial Measurements	Capacitance	CA	No	ote 1	
Intermediate Measurements	Capacitance	CA	No	ote 1	
(1000 hours) (Note 3)	Change in Capacitance	ΔC _A /C _A	-3	+3	%
	Insulation Resistance (Dielectric):	RID			
	C _n ≤ 10000pF		10	-	GΩ
	C _n > 10000pF		100	-	GΩ.nF
	Insulation Resistance (Body Insulation) (Note 2):	R _{IB}			
	C _n ≤ 10000pF		10	-	GΩ
	C _n > 10000pF		100	-	GΩ.nF
Final Measurements	Capacitance	CA	No	ote 1	
(1000 or 2000 hours) (Note 4)	Change in Capacitance	$\Delta C_A/C_A$	-3	+3	%
	Tangent of Loss Angle	tgō	-	20 ×10 ⁻⁴	-
	Insulation Resistance (Dielectric):	RID			
	C _n ≤ 10000pF		10	-	GΩ
	C _n > 10000pF		100	-	GΩ.nF
	Insulation Resistance (Body Insulation) (Note 2):	R _{IB}			
	C _n ≤ 10000pF		10	-	GΩ
	C _n > 10000pF		100	-	GΩ.nF
	Voltage Proof (Dielectric)	Vpd	No	ote 1	
	Voltage Proof (Body Insulation) (Note 2)	Vpb	No	ote 1	
Temperature Characterisation	Insulation Resistance (Dielectric) at T _{amb} = +125 ±2°C	RID	Note 5		
	Insulation Resistance (Body Insulation) at $T_{amb} = +125 \pm 2^{\circ}C$ (Note 2)	Rıb	Note 5		
	Temperature Coefficient	TC	No	ote 5	



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Test Reference per ESCC	Characteristics	Symbols	Li	Units	
No. 3001			Min	Max	
Resistance to Soldering Heat					
Initial Measurements	Capacitance	CA	No	ote 1	
Final Measurements	Capacitance	CA	Note 1		
	Change in Capacitance	ΔC _A /C _A	-1	+1	%
	Insulation Resistance (Dielectric)	RID	No	ote 1	
	Insulation Resistance (Body Insulation) (Note 2)	R _{IB}	No	ote 1	

NOTES:

- 1. As specified in Para. 2.4.1 Room Temperature Electrical Measurements.
- 2. Case type VR only.
- 3. Intermediate measurements are optional at the Manufacturer's discretion.
- 4. 1000 hours is applicable to Periodic Testing for extension of qualification. 2000 hours is applicable to Qualification Testing, and to Periodic Testing for renewal of qualification after lapse.
- 5. As specified in Para. 2.4.2 High and Low Temperatures Electrical Measurements.

2.6 <u>BURN-IN</u>

The requirements for Burn-in are specified in the ESCC Generic Specification. The following conditions shall also apply:

• After Burn-in, the components shall be removed from the chamber and allowed to cool under normal atmospheric conditions for recovery for 24 hours minimum.

ESCC Detail Specification



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APPENDIX A AGREED DEVIATIONS FOR AVX LTD (GB)

Items Affected	Description of Deviations						
Para. 2.1.1.1 Deviations from Special In-Process Controls -	Microsection Inspection: may be performed using AVX inspection document as per PID.						
Chart F2	Internal Visual Inspection: may be performed using AVX inspection document as per PID.						
Para. 2.1.1 Deviations from the Generic Specification: Screening Test - Chart F3	External Visual Inspection: may be performed using AVX inspection document as per PID.						
Para. 2.1.1 Deviations from Generic Specification: Qualification and Periodic Tests - Chart F4	External Visual Inspection: may be performed using AVX inspection document as per PID.						