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**CAPACITOR FILTERS, C-TYPE, FEEDTHROUGH,  
ELECTROMAGNETIC INTERFERENCE  
SUPPRESSION**

**BASED ON TYPE SFC030**

**ESCC Detail Specification No. 3008/020**

|         |           |
|---------|-----------|
| Issue 7 | July 2025 |
|---------|-----------|



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| DCR No. | CHANGE DESCRIPTION                                     |
|---------|--------------------------------------------------------|
| 1744    | Specification upissued to incorporate changes per DCR. |

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## 1 GENERAL

### 1.1 SCOPE

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 APPLICABLE DOCUMENTS

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

- (a) ESCC Generic Specification No. [3008](#).
- (b) [MIL-STD-202](#), Test Methods for Electronic and Electrical Component Parts.

### 1.3 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.

### 1.4 THE ESCC COMPONENT NUMBER AND COMPONENT TYPE VARIANTS

#### 1.4.1 The ESCC Component Number

The ESCC Component Number shall be constituted as follows:

Example: 300802001682MC

- Detail Specification Reference: 3008020
- Component Type Variant Number: 01 (as required)
- Characteristic code: Capacitance Value (6800pF): 682 (as required)
- Characteristic code: Capacitance Tolerance ( $\pm 20\%$ ): M
- Rating code: Rated DC Voltage (50V): C (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) Capacitance Value expressed by means of the following codes in accordance with ESCC Basic Specification No. [21700](#). The unit quantity shall be picofarad (pF):

| Capacitance Value (C)<br>(pF) | Code |
|-------------------------------|------|
| XX 10 <sup>1</sup>            | XX1  |
| XX 10 <sup>2</sup>            | XX2  |
| XX 10 <sup>3</sup>            | XX3  |

- (b) Capacitance Tolerance expressed by the following code in accordance with ESCC Basic Specification No. [21700](#):

| Tolerance ( $\pm$ %) | Code Letter |
|----------------------|-------------|
| 20                   | M           |

(c) Rated DC Voltage expressed by the following codes:

| Rated DC Voltage ( $U_R$ )<br>(V) | Code Letter |
|-----------------------------------|-------------|
| 50                                | C           |
| 100                               | E           |
| 200                               | G           |

#### 1.4.2 Component Type Variants and Range of Components

The Component Type Variants applicable to this specification are as follows:

| Type Variants<br>(Note 1) | Case Description and Terminal Configuration (Note 2)                                                                                                       |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01 to 03                  | Steel feedthrough case, non-hermetically sealed at flange end and hermetically sealed at other end                                                         |
| 04 to 06                  | Steel feedthrough case, hermetically sealed at flange end and non-hermetically sealed at other end                                                         |
| 07 to 09                  | Kovar feedthrough case, non-hermetically sealed at flange end and hermetically sealed at other end, with a thermocompression-bondable IN lead (flange end) |
| 10 to 12                  | Kovar feedthrough case, hermetically sealed at flange end and non-hermetically sealed at other end, with a thermocompression-bondable OUT lead (other end) |

#### NOTES:

- The available range of components and the Insertion Loss requirements for each available capacitance value are as follows:

| Type Variant | Rated DC Voltage<br>$U_R$<br>(V)<br>(at $T_{amb} \leq +85^\circ\text{C}$ ) | Range of Capacitance Values<br>$C$<br>(pF)<br>E6 Series<br>Tolerance $\pm 20\%$ | Voltage Proof<br>$V_P$<br>(V) | Voltage Drop<br>$V_{dr}$<br>(V) | DC Resistance<br>$R_s$<br>(m $\Omega$ ) | Rated Current<br>$I_R$<br>(A) | Weight Max.<br>(g) |
|--------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------|---------------------------------|-----------------------------------------|-------------------------------|--------------------|
| 01           | 50                                                                         | 470 to 22000                                                                    | 125                           | 0.05                            | 5                                       | 5                             | 1                  |
| 02           | 100                                                                        | 470 to 6800                                                                     | 250                           | 0.05                            | 5                                       | 5                             | 1                  |
| 03           | 200                                                                        | 470 to 2200                                                                     | 500                           | 0.05                            | 5                                       | 5                             | 1                  |
| 04           | 50                                                                         | 470 to 22000                                                                    | 125                           | 0.05                            | 5                                       | 5                             | 1                  |
| 05           | 100                                                                        | 470 to 6800                                                                     | 250                           | 0.05                            | 5                                       | 5                             | 1                  |
| 06           | 200                                                                        | 470 to 2200                                                                     | 500                           | 0.05                            | 5                                       | 5                             | 1                  |
| 07           | 50                                                                         | 470 to 22000                                                                    | 125                           | 0.1                             | 10                                      | 1                             | 1                  |
| 08           | 100                                                                        | 470 to 6800                                                                     | 250                           | 0.1                             | 10                                      | 1                             | 1                  |
| 09           | 200                                                                        | 470 to 2200                                                                     | 500                           | 0.1                             | 10                                      | 1                             | 1                  |
| 10           | 50                                                                         | 470 to 22000                                                                    | 125                           | 0.1                             | 10                                      | 1                             | 1                  |
| 11           | 100                                                                        | 470 to 6800                                                                     | 250                           | 0.1                             | 10                                      | 1                             | 1                  |
| 12           | 200                                                                        | 470 to 2200                                                                     | 500                           | 0.1                             | 10                                      | 1                             | 1                  |

| Capacitance Value C (pF)<br>E6 Series | Insertion Loss $I_L$ (dB) |       |        |        |      |      |       |
|---------------------------------------|---------------------------|-------|--------|--------|------|------|-------|
|                                       | 10MHz                     | 50MHz | 100MHz | 500MHz | 1GHz | 5GHz | 10GHz |
| 470                                   | -                         | 8     | 14     | 28     | 34   | 48   | 54    |
| 680                                   | -                         | 11    | 17     | 31     | 37   | 51   | 57    |
| 1000                                  | -                         | 15    | 21     | 35     | 41   | 55   | 61    |
| 1500                                  | -                         | 18    | 24     | 38     | 44   | 58   | 64    |
| 2200                                  | -                         | 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 Para. 1.6 for physical dimensions.

## 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.

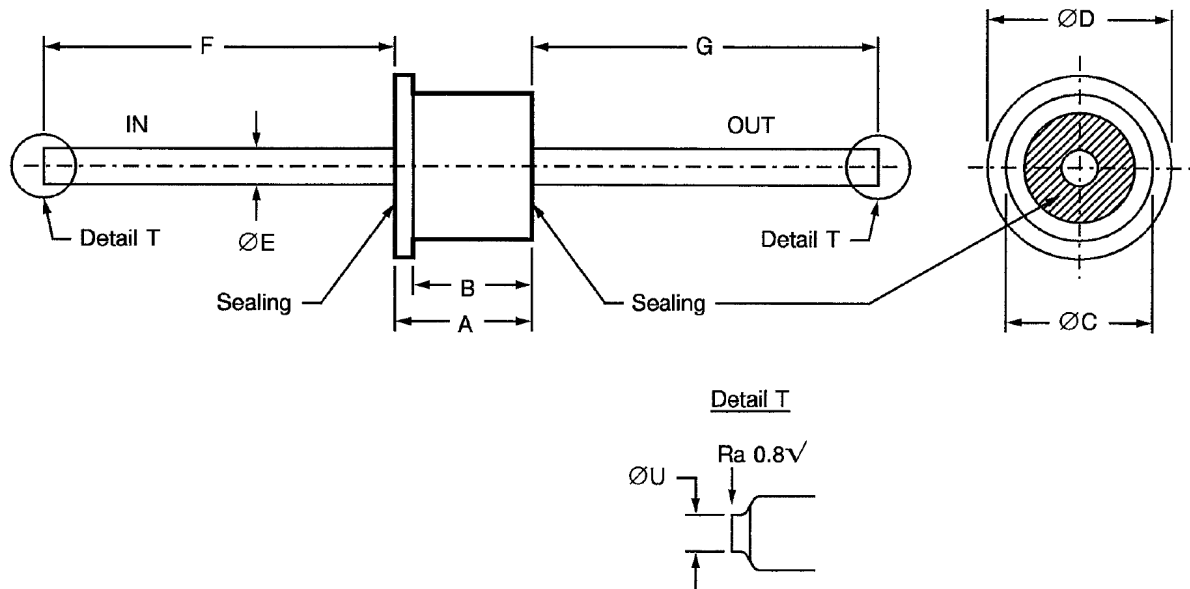
| Characteristics                        | Symbols   | Maximum Ratings           | Units      | Remarks              |
|----------------------------------------|-----------|---------------------------|------------|----------------------|
| Rated DC Voltage                       | $U_R$     | See Note 1 of Para. 1.4.2 | V          | Notes 1, 2           |
| Voltage Drop                           | $V_{dr}$  | See Note 1 of Para. 1.4.2 | V          |                      |
| DC Resistance                          | $R_s$     | See Note 1 of Para. 1.4.2 | m $\Omega$ |                      |
| Rated Current                          | $I_R$     | See Note 1 of Para. 1.4.2 | A          | DC and Low Frequency |
| Operating Temperature Range            | $T_{op}$  | -55 to +125               | °C         | $T_{amb}$            |
| Storage Temperature Range              | $T_{stg}$ | -55 to +125               | °C         |                      |
| Soldering Temperature<br>Leads<br>Case | $T_{sol}$ | +240<br>+280              | °C         | Note 3<br>Note 4     |

### NOTES:

- At  $T_{amb} \leq +85^\circ\text{C}$ . For  $T_{amb} > +85^\circ\text{C}$ , the following derating shall apply:
  - For Variants with  $U_R = 50\text{V}$  at  $T_{amb} \leq +85^\circ\text{C}$ , derate linearly to 25V at  $T_{amb} = +125^\circ\text{C}$ .
  - For Variants with  $U_R = 100\text{V}$  at  $T_{amb} \leq +85^\circ\text{C}$ , derate linearly to 70V at  $T_{amb} = +125^\circ\text{C}$ .
  - For Variants with  $U_R = 200\text{V}$  at  $T_{amb} \leq +85^\circ\text{C}$ , derate linearly to 100V at  $T_{amb} = +125^\circ\text{C}$ .

2. The DC applied voltage plus the ripple voltage shall never exceed the maximum rated DC voltage.
3. 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.
4. Duration 6 seconds maximum.

## 1.6 PHYSICAL DIMENSIONS



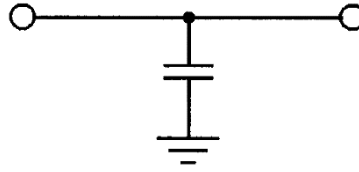
| Symbols            | Dimensions (mm)   |      |                   |      |                   |      |
|--------------------|-------------------|------|-------------------|------|-------------------|------|
|                    | Variants 01 to 06 |      | Variants 07 to 09 |      | Variants 10 to 12 |      |
|                    | Min               | Max  | Min               | Max  | Min               | Max  |
| A                  | 2.7               | 2.9  | 2.7               | 2.9  | 2.7               | 2.9  |
| B                  | 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<br>(Notes 1, 2) | 0.75              | 0.88 | 0.75              | 0.88 | 0.75              | 0.88 |
| F                  | 6                 | 7    | 1                 | 2    | 6                 | 7    |
| G                  | 6                 | 7    | 6                 | 7    | 1                 | 2    |
| ØU<br>(Note 3)     | N/A               | N/A  | 0.4               | -    | 0.4               | -    |

### NOTES:

1. Lead finish shall commence not more than 1.5mm from encapsulant.
2. Applies to both leads.
3. This dimension applies to Variants 07 to 12, where Detail T defines the specific area for thermocompression bonding at the end of the lead. See Para. 1.4.2 for details of the terminals concerned.



## 1.7 FUNCTIONAL DIAGRAM



## 1.8 MATERIALS AND FINISHES

### 1.8.1 Case

The case shall be either gold plated steel or kovar, hermetically sealed with a hard glass seal at one end and potting encapsulant sealing the filter element at the other end. See Para. 1.4.2.

### 1.8.2 Lead Material and Finish

#### 1.8.2.1 *Variants 01 to 06*

The lead material shall be Type H with Type 7 finish in accordance with the requirements of ESCC Basic Specification No. [23500](#).

#### 1.8.2.2 *Variants 07 to 12*

The lead material shall be Type D with Type 7 finish in accordance with the requirements of ESCC Basic Specification No. [23500](#).

## 2 REQUIREMENTS

### 2.1 GENERAL

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 Screening Tests - Chart F3*

- (a) Rapid Change of Temperature: The components need not be mounted.
- (b) Vibration: Shall not be performed.
- (c) Seal (Fine and Gross Leak): Shall only be performed on the hermetically sealed side of the component.

#### 2.1.1.2 *Deviations from Qualification and Periodic Tests – Charts F4A and F4B*

- (a) Seal (Fine and Gross Leak): Shall only be performed on the hermetically sealed side of the component.
- (b) Damp Heat: Shall only be performed on the non-hermetically sealed side of the component.
- (c) Resistance to Soldering Heat: May be performed prior to Vibration.
- (d) Immersion: Shall only be performed on the hermetically sealed side of the component.
- (e) Operating Life, Intermediate and Final Measurements: Insertion Loss measurements shall not be performed.

#### 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 or its primary package 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.

#### 2.3 SEAL (FINE AND GROSS LEAK)

The test conditions for Fine and Gross Leak shall be as specified in the ESCC Generic Specification.

The limit for Fine Leak shall be  $5 \times 10^{-3}$  Pa.cm<sup>3</sup>/s

#### 2.4 SOLDERABILITY

The test conditions for Solderability shall be as specified in the ESCC Generic Specification and as follows:

- Test Method 1. Terminals shall be immersed up to 2mm from sealing.
- A 1.6mm thermal screen may be used.

#### 2.5 ROBUSTNESS OF TERMINATIONS

The leads of the components are rigid.

The test conditions for Robustness of Terminations shall be as specified in the ESCC Generic Specification and as follows:

- Test Ua<sub>1</sub>, tensile, with an applied force of 10N and a duration of 10 ±1 seconds.

## 2.6 ELECTRICAL MEASUREMENTS AT ROOM, HIGH AND LOW TEMPERATURES

The measurements shall be performed at room, high and low temperatures.

### 2.6.1 Room Temperature Electrical Measurements

The measurements shall be performed at  $T_{amb} = +22 \pm 3^{\circ}\text{C}$ .

| Characteristics       | Symbols  | Test Method and Conditions        | Limits |        | Units |
|-----------------------|----------|-----------------------------------|--------|--------|-------|
|                       |          |                                   | Min    | Max    |       |
| Voltage Drop          | $V_{dr}$ | ESCC No. 3008                     | -      | Note 1 | V     |
| Voltage Proof         | $V_P$    | ESCC No. 3008<br>$2.5 \times U_R$ | Note 1 | -      | V     |
| Insulation Resistance | $R_i$    | ESCC No. 3008                     | $10^4$ | -      | MΩ    |
| Insertion Loss        |          | ESCC No. 3008                     |        |        |       |
|                       | $I_{L1}$ | $f = 10\text{MHz}$ (Notes 2, 3)   | Note 1 | -      | dB    |
|                       | $I_{L2}$ | $f = 50\text{MHz}$ (Notes 2, 4)   | Note 1 | -      | dB    |
|                       | $I_{L3}$ | $f = 100\text{MHz}$ (Notes 2, 3)  | Note 1 | -      | dB    |
|                       | $I_{L4}$ | $f = 500\text{MHz}$ (Notes 2, 4)  | Note 1 | -      | dB    |
|                       | $I_{L5}$ | $f = 1\text{GHz}$ (Notes 2, 3)    | Note 1 | -      | dB    |
|                       | $I_{L6}$ | $f = 5\text{GHz}$ (Notes 2, 4)    | Note 1 | -      | dB    |
|                       | $I_{L7}$ | $f = 10\text{GHz}$ (Notes 2, 4)   | Note 1 | -      | dB    |
| Capacitance           | C        | ESCC No. 3008                     | Note 1 |        | pF    |

#### NOTES:

- See Note 1 of Para. 1.4.2.
- For Qualification Testing and Periodic Testing for renewal of qualification after lapse, measurements shall be made with a load current of zero and, during either Subgroup 1B or Subgroup 1C of Chart F4A in the Generic Specification, measurements shall also be made at the rated current specified in Note 1 of Para. 1.4.2.
- For Screening and Periodic Testing for extension of qualification,  $I_{L1}$ ,  $I_{L3}$  and  $I_{L5}$  shall be measured with no load current applied.
- For Screening and Periodic Testing for extension of qualification,  $I_{L2}$ ,  $I_{L4}$ ,  $I_{L6}$  and  $I_{L7}$  are guaranteed but not tested.

## 2.6.2 High and Low Temperatures Electrical Measurements

| Characteristics       | Symbols      | Test Method and Conditions (Note 1)                                                                      | Limits |     | Units            |
|-----------------------|--------------|----------------------------------------------------------------------------------------------------------|--------|-----|------------------|
|                       |              |                                                                                                          | Min    | Max |                  |
| Insulation Resistance | $R_i$        | ESCC No. 3008<br>$T_{amb} = +125 (+0 -3)^{\circ}\text{C}$                                                | $10^3$ | -   | $\text{M}\Omega$ |
| Change in Capacitance | $\Delta C/C$ | ESCC No. 3008<br>$T_{amb} = +125 (+0 -3)^{\circ}\text{C}$ and<br>$T_{amb} = -55 (+3 -0)^{\circ}\text{C}$ | -20    | +20 | %<br>(Note 2)    |

### NOTES:

- Measurements shall be performed on a sample of 5 components. In the event of any failure a 100% inspection shall be performed.
- With respect to the room temperature measurement. See Para. 2.6.1.

## 2.7 PARAMETER DRIFT VALUES

The measurements shall be performed at  $T_{amb} = +22 \pm 3^{\circ}\text{C}$ .

The test methods and test conditions shall be as per the corresponding test defined in Para. 2.6.1, Room Temperature Electrical Measurements.

The drift values ( $\Delta$ ) shall not be exceeded for each characteristic where specified. The corresponding absolute limit values for each characteristic shall not be exceeded.

| Characteristics       | Symbols      | Drift Value $\Delta$ | Units |
|-----------------------|--------------|----------------------|-------|
| Change in Capacitance | $\Delta C/C$ | $\pm 10$             | %     |

## 2.8 INTERMEDIATE AND END-POINT ELECTRICAL MEASUREMENTS

Unless otherwise specified, the measurements shall be performed at  $T_{amb} = +22 \pm 3^{\circ}\text{C}$ .

Unless otherwise specified, test methods and test conditions shall be as per the corresponding test defined in Para. 2.6.1, Room Temperature Electrical Measurements.

The drift values ( $\Delta$ ) shall not be exceeded for each characteristic where specified. The corresponding absolute limit values for each characteristic shall not be exceeded.

| Test Reference per ESCC<br>No. 3008 | Characteristics       | Symbols  | Limits      |        | Units            |
|-------------------------------------|-----------------------|----------|-------------|--------|------------------|
|                                     |                       |          | Min         | Max    |                  |
| Overload                            | Insulation Resistance | $R_i$    | Note 1      | -      | $\text{M}\Omega$ |
|                                     | Voltage Drop          | $V_{dr}$ | -           | Note 2 | V                |
| Low Air Pressure                    | Voltage Proof         | $V_P$    | $125\% U_R$ | -      | V                |
| Damp Heat                           | Insulation Resistance | $R_i$    | Note 3      | -      | $\text{M}\Omega$ |
| Resistance to Soldering Heat        | Insulation Resistance | $R_i$    | Note 1      | -      | $\text{M}\Omega$ |
|                                     | Insertion Loss        | $I_L$    | Note 2      | -      | dB               |
| Shock                               | Insertion Loss        | $I_L$    | Note 2      | -      | dB               |

| Test Reference per ESCC<br>No. 3008                                                | Characteristics                            | Symbols      | Limits    |        | Units |
|------------------------------------------------------------------------------------|--------------------------------------------|--------------|-----------|--------|-------|
|                                                                                    |                                            |              | Min       | Max    |       |
| Vibration                                                                          | Insertion Loss                             | $I_L$        | Note 2    | -      | dB    |
| Immersion                                                                          | Voltage Proof                              | $V_P$        | 90% $U_R$ | -      | V     |
|                                                                                    | Insulation Resistance                      | $R_i$        | Note 1    | -      | MΩ    |
|                                                                                    | Insertion Loss                             | $I_L$        | Note 2    | -      | dB    |
| Accelerated Damp Heat                                                              | Voltage Proof                              | $V_P$        | 90% $U_R$ | -      | V     |
|                                                                                    | Insulation Resistance                      | $R_i$        | Note 5    | -      | MΩ    |
|                                                                                    | Insertion Loss                             | $I_L$        | Note 2    | -      | dB    |
| Operating Life                                                                     |                                            |              |           |        |       |
| Initial Measurements                                                               | Capacitance                                | C            | Note 2    |        | pF    |
| Intermediate Measurements<br>(at 500 hours (Note 6)) /<br>(at 1000 hours (Note 7)) | Insulation Resistance<br>at +125 (+0 -3)°C | $R_i$        | Note 4    | -      | MΩ    |
|                                                                                    | After recovery:                            |              |           |        |       |
|                                                                                    | Capacitance                                | C            | Note 2    |        | pF    |
|                                                                                    | Change in Capacitance                      | $\Delta C/C$ | -         | ±10    | %     |
|                                                                                    | Voltage Proof                              | $V_P$        | 90% $U_R$ | -      | V     |
|                                                                                    | Insulation Resistance                      | $R_i$        | Note 5    | -      | MΩ    |
| Final Measurements<br>(at 1000 or 2000 hours<br>(Note 8))                          | Insulation Resistance<br>at +125 (+0 -3)°C | $R_i$        | Note 4    | -      | MΩ    |
|                                                                                    | After recovery:                            |              |           |        |       |
|                                                                                    | Capacitance                                | C            | Note 2    |        | pF    |
|                                                                                    | Change in Capacitance                      | $\Delta C/C$ | -         | ±10    | %     |
|                                                                                    | Voltage Proof                              | $V_P$        | 90% $U_R$ | -      | V     |
|                                                                                    | Insulation Resistance                      | $R_i$        | Note 5    | -      | MΩ    |
| Robustness of Terminations                                                         | Voltage Drop                               | $V_{dr}$     | -         | Note 2 | V     |

**NOTES:**

- See Para. 2.6.1.
- See Note 1 of Para. 1.4.2.
- > 10% of the value given in Para. 2.6.1.
- See Para. 2.6.2.
- > 50% of the value given in Para. 2.6.1.
- 500 hours is applicable to Qualification Testing, Periodic Testing for extension of qualification and to Periodic Testing for renewal of qualification after lapse.
- 1000 hours is applicable to Qualification Testing, and to Periodic Testing for renewal of qualification after lapse.
- 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.

## 2.9 BURN-IN CONDITIONS

| Characteristics         | Symbols   | Test Conditions | Units |
|-------------------------|-----------|-----------------|-------|
| Ambient Temperature     | $T_{amb}$ | +125 (+0 -3)    | °C    |
| Applied Voltage         | $U_A$     |                 | V     |
| Variants 03, 06, 09, 12 |           | 300 (Note 1)    |       |
| Variants 02, 05, 08, 11 |           | 150 (Note 1)    |       |
| Variants 01, 04, 07, 10 |           | 50 (Note 1)     |       |

### **NOTES:**

- Between one terminal and the case.

## 2.10 OPERATING LIFE CONDITIONS

| Characteristics         | Symbols   | Test Conditions | Units |
|-------------------------|-----------|-----------------|-------|
| Ambient Temperature     | $T_{amb}$ | +125 (+0 -3)    | °C    |
| Applied Voltage         | $U_A$     |                 | V     |
| Variants 03, 06, 09, 12 |           | 300 (Note 1)    |       |
| Variants 02, 05, 08, 11 |           | 150 (Note 1)    |       |
| Variants 01, 04, 07, 10 |           | 50 (Note 1)     |       |
| Rated Current           | $I_R$     | Note 2          | A     |

### **NOTES:**

- Between one terminal and the case.
- Current to flow between the terminals. For the applicable Rated Current, see Note 1 of Para. 1.4.2.

**APPENDIX 'A'****AGREED DEVIATIONS FOR EXXELIA TECHNOLOGIES (F)**

| Item Affected                                                                       | Description of Deviations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Para. 2.1.1.1, Deviations from Screening Tests – Chart F3                           | <p>Room Temperature Electrical Measurements:</p> <ul style="list-style-type: none"><li>• The Voltage Drop measurements may be replaced by DC Resistance measurements in accordance with <a href="#">MIL-STD-202, Test Method 303</a>. The applicable DC Resistance value specified in Note 1 of Para. 1.4.2 shall not be exceeded.</li><li>• Insertion Loss may be performed on a sample of 5 components. In the event of any failure a 100% inspection shall be performed.</li></ul> <p>Seal (Fine and Gross Leak): Shall not be performed.</p> |
| Para. 2.1.1.2, Deviations from Qualification and Periodic Tests – Chart F4A and F4B | <p>Overload and Robustness of Terminations (Intermediate and End-Point Electrical Measurements): The Voltage Drop measurements may be replaced by DC Resistance measurements in accordance with <a href="#">MIL-STD-202, Test Method 303</a>. The applicable DC Resistance value specified in Note 1 of Para. 1.4.2 shall not be exceeded.</p>                                                                                                                                                                                                   |
| Para. 2.1.1.2, Deviations from Qualification and Periodic Tests – Chart F4A         | <p>Rapid Change of Temperature: Shall not be performed during Subgroup 1B.</p> <p>Seal (Fine and Gross Leak): Shall not be performed.</p> <p>Immersion: Shall not be performed.</p>                                                                                                                                                                                                                                                                                                                                                              |