

Propose additional modifications to DCR1015 on 3012/001 (highlighted in blue)

4.2.4 Deviations from Qualification Tests (Chart IV)

- (a) Para. 9.9, Mounting: Capacitance and Capacitance Change shall be measured in accordance with Table 6 herein. Capacitance Change shall be related to the initial measurement.
- (b) Para. 9.19, Solderability: The solderable area is the termination pad and up to 1/3 the height of the tab.

4.2.5 Deviations from Lot Acceptance Tests (Chart V)

- (a) Para. 9.9, Mounting: Capacitance and Capacitance Change shall be measured in accordance with Table 6 herein. Capacitance Change shall be related to the initial measurement.
- (b) Para. 9.19, Solderability: The solderable area is the termination pad and up to 1/3 the height of the tab.

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. 3012		Measurements and Inspections		Symbols	Limits		Units	
	Environmental and Endurance Tests (Note 1)	Test Methods and Conditions	Identification	Conditions		Min	Max		
01	Mounting	Para. 9.9	Initial Measurements						
			Capacitance		Table 2	C	Table 2		μF
			Final Examination						
			Terminals		Good tinning	-	-	-	
			Final Measurements						
			Capacitance		Table 2 Item 1	C	Table 2-Record Value		μF
		Capacitance Change	Table 2 Item 1	ΔC/C	-5	+5	%		
		DC Leakage Current	Table 2 Item 2	I _L	-	Table 2	μA		
		Dissipation Factor	Table 2 Item 3	DF	-	Table 2	%		
02	Rapid Change of Temperature	Para. 9.3.2	Initial Measurements						
			Capacitance		Value recorded after Mounting	C	Table 2		μF
			Final Measurements						
			Recovery period of 4 hours min.						
			Visual Examination		-	-	-	-	
			Capacitance Change		Table 2 Item 1	ΔC/C	-5	+5	%(2)
		DC Leakage Current	Table 2 Item 2	I _L	-	Table 2	μA		
		Dissipation Factor	Table 2 Item 3	DF	-	Table 2	%		
03	External Visual Inspection	Para. 9.5	Final Inspection						
			Visual Inspection	ESCC No. 20500	-	-	-		

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No.	ESCC Generic Spec. No. 3012		Measurements and Inspections		Symbols	Limits		Units
	Environmental and Endurance Tests (Note 1)	Test Methods and Conditions	Identification	Conditions		Min	Max	
04	Adhesion	Para. 9.10	Initial Measurements					
			Capacitance	Value recorded after Mounting	C	Table	μF	
			Final Measurements					
			Visual Examination	No damage or loosening from the substrate	-	-	-	
			Capacitance Change	Table 2 Item 1	ΔC/C	-5	+5	% (2)
05	Vibration	Para. 9.11	Measurements during test	During Last Cycle				
				No intermittent Contact > 0.5ms, arcing or open or shorts	-	-	-	
			Final Examination					
			Visual Examination	No damage	-	-	-	
06	Shock or Bump	Para. 9.12	Final Examination					
			Visual Examination	No damage	-	-	-	
07	Climatic Sequence	Para. 9.13	Initial Measurements					
			Capacitance	Value recorded after Mounting	C	Table 2	μF	
			Intermediate Measurements	After Dry Heat (2)				
			DC Leakage Current	Table 3 Item 2 (Note 3)	I _L	-	Table 3	μA
			Final Measurements	After recovery of 1 to 24 hours				
			Visual Inspection	ESCC No. 20500	-	-	-	
			Capacitance Change	Table 2 Item 1	ΔC/C	-5	+5	% (2)
DC Leakage Current	Table 2 Item 2	I _L	-	Table 2	μA			
			Dissipation Factor	Table 2 Item 3	DF	-	(3-4)	%
08	High and Low Temperature Stability	Para. 9.14	Measurements during test					
			Electrical Measurements	Tables 2 & 3			Tables 2 & 3	
09	Surge Voltage	Para. 9.15	Final Measurements					
			Capacitance	Table 2 Item 1	C		Table 2	μF
			DC Leakage Current	Table 2 Item 2	I _L	-	Table 2	μA
			Dissipation Factor	Table 2 Item 3	DF	-	Table 2	%

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No.	ESCC Generic Spec. No. 3012		Measurements and Inspections		Symbols	Limits		Units					
	Environmental and Endurance Tests (Note 1)	Test Methods and Conditions	Identification	Conditions		Min	Max						
10	Damp Heat Steady State	Para. 9.16	Initial Measurements	Value recorded after Mounting After recovery of 1 to 2 hours	C	Table 2		μF					
			Capacitance										
			Final Measurements										
			Visual Examination						-	-	-		
			Capacitance Change						Table 2 Item 1	ΔC/C	-5	+5	% (2)
DC Leakage Current	Table 2 Item 2	I _L	-	Table 2	μA								
			Dissipation Factor	Table 2 Item 3	DF	-	(3-4)	%					
11	Operating Life	Para. 9.17	Initial Measurements	Value recorded after Mounting At 250 and 1000 hrs	C	Table 2		μF					
			Capacitance										
			Intermediate Measurements										
			DC Leakage Current (2)						Table 3 Item 2 (Note 3)	I _L	-	(4-5)	μA
			Final Measurements						At 1000 and 2000 hrs and after recovery of 1 to 2 hours				
			Capacitance Change						Table 2 Item 1	ΔC/C	-5	+5	% (2)
DC Leakage Current	Table 2 Item 2	I _L	-	(5-6)	μA								
			Dissipation Factor	Table 2 Item 3	DF	-	Table 2	%					
			Visual Examination	No damage	-	-	-						
12	Permanence of Marking	Para. 9.18	Final Examination	Visual Examination	-	-	-						
			Visual Examination						No corrosion or obliteration of marking				
13	Solderability	Para. 9.19 and Paras. 4.2.4 and 4.2.5 of this spec	Final Examination	Visual Examination	-	-	-						

NOTES

- The tests in this Table refer to either Chart IV or V and shall be used as applicable.
- Referred to the initial measurement recorded during the final measurements during Mounting.
- While still at the high temperature.
- 1.2x the value specified in Table 2 of this specification.
- 1.25x the value specified in Table 3 of this specification.
- 1.25x the value specified in Table 2 of this specification.