

Propose additional modifications to DCR1014 on 3012/004 (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		C	Table 2	Table 2	μF
			Capacitance					
			Final Examination					
			Terminals	Good tinning		-	-	
			Final Measurements			Table 2 Item 1	C	Table 2 Record Value
			Capacitance					
			Capacitance Change	Table 2 Item 1		ΔC/C	-5	+5
			DC Leakage Current	Table 2 Item 2		I_L	-	Table 2
			Dissipation Factor	Table 2 Item 3		DF	-	Table 2
			Equivalent Series Resistance	Table 2 Item 4		ESR	-	1.25 x Table 2
02	Rapid Change of Temperature	Para. 9.3.2	Initial Measurements		C	Table 2	Table 2	μF
			Capacitance					
			Final Measurements			Value recorded after Mounting	Table 2	Table 2
			Visual Examination	Recovery period of 4 hours min.				
			Capacitance Change	No corrosion, no damage or obliteration of marking		ΔC/C	-5	+5
			DC Leakage Current	Table 2 Item 1		I_L	-	Table 2
			Dissipation Factor	Table 2 Item 2		DF	-	Table 2
			Equivalent Series Resistance	Table 2 Item 3		ESR	-	1.25 x 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		
09	Surge Voltage	Para. 9.15	Final Measurements Capacitance- Change DC Leakage Current Dissipation Factor Equivalent Series Resistance	Table 2 Item 1 Table 2 Item 2 Table 2 Item 3 Table 2 Item 4	C I _L DF ESR	- - - -	Table 2 Table 2 Table 2 Table 2	μF μA % mΩ	
10	Damp Heat Steady State	Para. 9.16	Initial Measurements Capacitance Final Measurements Visual Examination Capacitance Change DC Leakage Current Dissipation Factor Equivalent Series Resistance	Value recorded after Mounting After recovery of 1 to 2 hours No damage Table 2 Item 1 Table 2 Item 2 Table 2 Item 3 Table 2 Item 4	G	- ΔC/C I _L DF ESR	- -10 - -10 - -10 - -10	Table 2 +10 1.5 x Table 2 1.2 x Table 2 1.25 x Table 2	μF % (2) μA %
11	Operating Life	Para. 9.17	Initial Measurements Capacitance Intermediate Measurements DC Leakage Current Final Measurements Capacitance Change DC Leakage Current Dissipation Factor Equivalent Series Resistance Visual Examination	Value recorded after Mounting At 250 and 1000 hrs Table 3 Item 2 (Note 2 3) At 1000 and 2000 hrs and after recovery of 1 to 2 hours Table 2 Item 1 Table 2 Item 2 Table 2 Item 3 Table 2 Item 4 No damage	C I _L	- - - - - - - -	Table 2 1.25 x Table 3 1.25 x Table 2 Table 2 1.25 x Table 2	μF μA %	
12	Permanence of Marking	Para. 9.18	Final Examination Visual Examination	ESCC No. 24800	-	-	-		
13	Solderability	Para. 9.19, 4.2.4 and 4.2.5 of this spec	Final Examination Visual Examination	ESCC No. 3012 Para. 9.13.3 and no damage	-	-	-		

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NOTES:

1. The tests in this Table refer to either Chart IV or V and shall be used as applicable.
2. **Referred to the initial measurement recorded during the final measurements during Mounting.**
3. While still at the high temperature.