

INCH-POUND

MIL-R-10509G
AMENDMENT 1
27 June 1994

MILITARY SPECIFICATION
RESISTORS, FIXED, FILM (HIGH STABILITY)
GENERAL SPECIFICATION FOR

Inactive for new design after 21 April 1994.
For new design use MIL-R-551B2.

This amendment forms a part of MIL-R-10509G, dated 21 April 1994, and is approved for use by all Departments and Agencies of the Department of Defense.

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TABLE VII, delete and substitute:

"TABLE VII. Group B inspection.

Test 1/	Requirement paragraph	Method paragraph	Number of samples
Resistance-temperature characteristic Seal (as applicable)	3.17	4.6.12	4.5.1.4.1
	3.8	4.6.3	4.5.1.4.1

1/ If the manufacturer can demonstrate that this test has been performed five consecutive times with zero failures, the frequency of this test(s), with the approval of the qualifying activity, can be performed on an annual basis. If the design, material, construction, or processing of the part is changed, or if there are any quality problems or failures, the qualifying activity may require resumption of the original test frequency."

4.5.1.4.1, delete and substitute:

"4.5.1.4.1 Sampling plan. A sample of 13 parts shall be randomly selected, if one or more defects are found, the lot shall be rescreened and defects removed. After screening and removal of defects, a new sample of 13 parts shall be randomly selected, if one or more defects are found in the second sample, the lot shall be rejected and shall not be supplied to this specification."

TABLE VIIa, delete in its entirety.

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PAGES 13 and 14

TABLE VIII, delete and substitute:

"TABLE VIII. Group C inspection.

Test	Requirement paragraph	Method paragraph	Number of samples	Number of defects allowed
<u>Monthly 1/</u>				
Dielectric withstanding voltage	3.13	4.6.8	10	1
Insulation resistance	3.14	4.6.9		
Thermal shock	3.9	4.6.4		
Low temperature operation	3.10	4.6.5		
Short-time overload	3.11	4.6.6		
Terminal strength	3.12	4.6.7		
Seal (as applicable)	3.8	4.6.3		
<u>Quarterly</u>				
Subgroup 1				
Resistance to soldering heat	3.15	4.6.10	10	1
Moisture resistance	3.16	4.6.11		
Subgroup 2				
Life	3.18	4.6.13	10	1
Seal (as applicable)	3.8	4.6.3		
<u>Semiannually 1/</u>				
Shock, specified pulse	3.20	4.6.15	10	1
Vibration, high frequency	3.21	4.6.16		
Seal (as applicable)	3.8	4.6.3		

1/ If the manufacturer can demonstrate that these tests have been performed five consecutive times with zero failures, these tests, with the approval of the qualifying activity, can be deleted. The manufacturer, however, shall perform these test every 3 years after the deletion as part of long term verification. If the design, material, construction, or processing of the part is changed, or if there are any quality problems, the qualifying activity may require resumption of the specified testing. Deletion of testing does not relieve the manufacturer from the test requirements in case of dispute."

CONCLUDING MATERIAL

Custodians:
Army - ER
Navy - EC
Air Force - 85

Review activities:
Army - AR, AT, AV, ME
Navy - AS, CG, MC, OS
Air Force - 17, 19, 99
DLA - ES

Preparing activity:
Army - ER

Agent:
DLA-ES

(Project 5905-1387)