ATTACHMENT 3

AEC - Q200 - 003 - REV B

BEAM LOAD (BREAK STRENGTH) TEST
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METHOD - 003
PASSIVE COMPONENT
SURFACE MOUNTED CERAMIC CAPACITORS
BEAM LOAD (BREAK STRENGTH) TEST

1.0 SCOPE

1.1 DESCRIPTION:
This specification establishes the procedure and criteria for evaluating break strength.

1.2 Reference Documents:
Not Applicable

2.0 EQUIPMENT:

2.1 Test Apparatus:
The apparatus required for testing shall be equivalent to the fixture shown in Figure 1.

3.0 TEST PROCEDURE:

3.1 Sample Size:
The total number of components and lots to be tested is listed in Table 1 of AEC-Q200 specification.

3.2 Test Environment:
Place the part in the beam load fixture. Apply a force until the part breaks or the minimum acceptable force level required in the user specification(s) is attained.

3.3 Measurement:
Prior to beam load testing, complete the external visual (TST NO. 9) test. Record the force level at which the part breaks to conclude the test.
Breaking strength
Tested with the fixture described below

![Diagram of Beam Load Test](image)

Figure 1: Typical equivalent circuit for Beam Load Test
Note: \( S = 0.55 \pm 0.05 \) of the nominal length of Device under Test

4.0 FAILURE CRITERIA

During (if applicable) and after subjection to test, part rupture prior to any minimum user force requirement shall be considered a failure.
### Revision History

<table>
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<td>June 1, 2010</td>
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