



CORROSION & ELECTRICAL TEST DATA

Brightflow-205NC No Clean Low Residue Solder Flux

CORROSION TESTING

<u>Test</u>	<u>Pass Requirement</u>	<u>Result</u>
IPC/Bellcore Copper Mirror Test	No complete Copper removal	Passed
Silver Chromate Test (Halide)	No Halide indicated	Passed
IPC-SF-818 10 day atmospheric Copper Corrosion Test.	No Corrosion evident.	Passed (L)

SURFACE INSULATION RESISTANCE (Results in Ohms)

<u>Test Method</u>	<u>Test Parameters</u>	<u>Pass Requirement</u>	<u>Result</u>
IPC-SF-818 Class3 (Not Cleaned)	85 deg C/85% RH 7 day test cycle	1.0 x 10 ⁸ min.	5.6 x 10 ⁸

BELLCORE-TR-NWT-000078 Issue 3.

<u>Test Condition</u>	<u>Conditions</u>	<u>Requirements</u>	<u>Result</u>
Comb Pattern (upward & uncleaned)	35 deg. C/85% RH (4 days with bias voltage)	1.0 x 11 ¹¹ min.	1.3 x 10 ¹²
Comb Pattern (down & uncleaned)	35 deg. C/85% RH (4 days with bias voltage)	1.0 x 10 ¹¹ min.	1.9 x 10 ¹²
Control Boards	35 deg. C/85% RH	2.0 x 10 ¹¹ min.	3.3 x 10 ¹²

Electromigration (per Bellcore TR-NWT - 000078, issue 3. SIR values in Ohms.

<u>Test Method</u>	<u>Conditions</u>	<u>SIR (Initial)</u>	<u>SIR (Final)</u>	<u>Visual</u>
Comb Pattern (Upward)	85 deg. C/85% RH 500 Hr/10V bias	1.2 x 10 ⁹	5.0 x 10 ⁹	No dendrites or corrosion
Comb Pattern (Down)	85 deg. C/85% RH 500 Hr/10V bias	5.4 x 10 ⁹	3.4 x 10 ⁹	No dendrites or corrosion

For passing electromigration test; SIR (Initial) / SIR (Final) <10