

Laird TECHNOLOGIES

EMC Test Certificate

This certificate of compliance is hereby issued by Laird Technologies to the named manufacturer and is valid only for the equipment identified below.

Product Description: Quick Take 15
Manufacturer: SKC, Inc.
Address: 863 Valley View Road
City, State Zip Code: Eighty-Four, PA 15330
Phone: 724-941-9704 **Fax:** 724-941-2184
Contact Name: Peter Hall
Order Number: 191237 **Purchase Order Number:** PH1165
Test Period: 24, 26 March and 21, 22, 23, 25 April 2003

EMC Tests Performed:

Product Standard: EN 61326 Table A.1 and FCC Part 15				
Description	Test Specification	Test Requirement	Power Tested	Status
Conducted Emissions	EN 55011: 1998 + A1 August 1999	Class B	120 VAC /60 Hz 230 VAC/ 50 Hz	Complied
Radiated Emissions	EN 55011: 1998,+ A1 August 1999	Class B	230 VAC/ 50 Hz	Complied
Electrostatic Discharge	EN 61000-4-2:1995, +A1 April 1998	2, 4, 8 kV	230 VAC/ 50 Hz	Complied
Radiated Immunity	EN 61000-4-3:2002, +A1 October 2002	10 V/m from 80 MHz to 1 GHz and 1.4 to 2 GHz	230 VAC/ 50 Hz	Complied
Electrical Fast Transient	EN 61000-4-4:1995,+A1:February 2001, +A2: August 2001	2 kV on AC mains	230 VAC/ 50 Hz	Complied
Fast Surges	EN 61000-4-5: 1995 + Corrigendum October 1995	0.5, 1, 2 kV CM and 0.5, 1 kV DM on AC mains	230 VAC/ 50 Hz	Complied
Conducted RF Disturbances	EN 61000-4-6: 1996,+ A1 and A2 2001 Corrigendum No.1 December 2001	3 V/rms	230 VAC/ 50 Hz	Complied
Power Frequency Magnetic Field	EN 61000-4-8 +A1 October 2001	30 A/m	230 VAC/ 50 Hz	Complied
Voltage Variations	EN 61000-4-11: 1994 +A1 February 2001	-100%, 10 ms positive/negative polarity	230 VAC/ 50 Hz	Complied

Product Modifications:

The following modifications were made to the EUT during EMC testing:

1. EN 55011 a replacement 1.0 uf cap was installed at the decoupling on the (C18) microprocessor.
2. EN 55011 a 1.0 uf cap was soldered into place across the (C28) charging input.
3. EN 61000-4-3 a XTA1 crystal was replaced with a similar type encased in a metal can.
4. EN 61000-4-3 a C6A 1.0 uf cap was removed.
5. EN 61000-4-3 a Ferrite part number P/N 264354002 was installed on the internal ends of the charging/ power feed cable, at the case entry point and the board termination end. Five turns were used for each ferrite.

Test Details

The EUT was tested at 120 VAC/ 60 Hz for FCC Part 15 conducted emissions testing and 230 VAC/ 50 Hz for conducted and radiated emissions and immunity testing to the requirements of EN 61326 Table A.1. The EUT measures 10" High x 2" Wide x 4.5" Long. The crystal operating oscillator frequency was 20 MHz. The air sampling pump was set up to run continuously sampling air while the AC power/charging plug was attached to the EUT.

Test Summary Statement

Testing was performed by the Laird Technologies facility in Delaware Water Gap, PA. The test sample as tested was found to be in compliance with the standards listed above. In correspondence concerning this certificate, please refer to the date, manufacturer name and order number 191237.

Authorized By

Barkley F. Wesseliuss
Barkley F. Wesseliuss, EMC Technician

7 Dec 04
Date