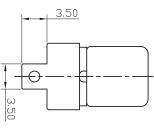


(BOTTOM VIEW) PCB LAYOUT



COLOR CHART

	BLUE	RED	YELLOW	WHITE	BLACK	COLOR
_	RJ-1004-30U-NI	RJ-1004-30B-NL	RJ-1004-30Y-NL	RJ-1004-30W-NL	RJ-1004-30B-NL	MODEL No. F

SPECIFICATIONS

- 1. INSULATION RESISTANCE OF ADJACENT OPEN TERMINALS SHALL NOT BE LESS THAN 50 MEGOHMS WHEN MEASURED WITH 500 VOLTS RESISTANCE METER.
- 2. CONNECTOR SHALL WITHSTAND 500 VOLTS (RMS) BETWEEN ADJACENT OPEN TERMINAL FOR ONE MINUTE.
- 3. CONTACT RESISTANCE OF NORMALLY CLOSED TERMINALS SHALL NOT EXCEED 0.03 OHMS WHEN MEASURED AT A CURRENT OF ONE AMPERE BY VOLTAGE DROP METHOD.

CONNECTOR SHALL WITHSTAND 5,000 CYCLES OF INSERTIONS AND

NOT EXCEED 0.1 OHM

WITHDRAWAL WITH TESTING PLUG, CONTACT RESISTANCE SHALL

ALL DIMS ARE GIVEN IN mm



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REVISION RECORD

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NUMBER RJ-1004-30U-NL

SPECIFICATION AND TESTING REPORT

A. GENERAL SCOPE:

ALL AUDIO SYSTEMS AND SIMILAR EQUIPMENT THIS SPECIFICATION COVERS THE REQUIREMENTS FOR DIRECT CIRCUIT POWER SUPPLY FOR

B. MATED PLUG

THE MATING PLUG SHALL BE IN 3.2± 0.005mm DIAMETER

C. COMPONENTS AND MATERIALS:

SHELL: BRASS, NICKEL PLATED

INSULATION WASHER: PBT CENTRE CONTACT: BRASS, NICKEL PLATED BRACKET: C.R. STEEL, NICKEL PLATED

D. ELECTRICAL REQUIREMENTS:

- . DIELECTRIC STRENGTH: THE SOCKET SHALL WITHSTAND WITHOUT FAILURE,A POTENTIAL OF 500 VOLTS r.m.s. 50/60 Hz APPLIED BETWEEN MUTUALLY INSULATED METAL PARTS FOR ONE
- 2. INSULATION RESISTANCE: INSULATION RESISTANCE BETWEEN INSULATED METAL PARTS SHALL BE 100 MEGOHMS OR MORE AT INITIAL AND 50 MEGOHM OR MORE AFTER COLD RESISTANCE METER TEST,HOT TEST,AND HUMIDITY TEST WHEN MEASURED WITH A 500 VOLTS D.C INSULATION
- 3. CONTACT RESISTANCE: CONTACT RESISTANCE SHALL BE LESS THAN 50 MILLIOHMS AT SHALL BE CLEANED AND FREE FROM OXIDATION FILM OF THE SURFACE MEASURED AT A CURRENT OF LESS THAN 100 MILLIAMPERE 1 KHz. THE MATING PLUG USED AFTER LIFE BETWEEN TERMINAL OF THE SOCKET IN A CLOSED CIRCUITED, WHEN AND THAT OF THE MATING PLUG;LESS THAN 30 MILLIOHMS AT INITIAL AND 60 MILLIOHMS INITIAL AND 100 MILLIOHMS AFTER LIFE TEST BETWEEN A TERMINAL OF THE SOCKET
- 4. RATING: 1A/12V DC MAX

MECHANICAL REQUIREMENT

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- 1. INSERTION AND WITHDRAWAL FORCE: THE INSERTION FORCE AND WITHDRAWAL FORCE SHALL BE 0.3-3 Kgs AT INITIAL AND 0.1-2 Kgs AFTER LIFE TEST WITH THE GAUGE PLUG
- 2. TERMINAL STRENGTH: THE TERMINAL SHALL BE CAPABLE OF WITHSTANDING A FORCE OF 500 GRAM APPLIED IN ANY DIRECTIONS FOR 10 SECOND WITHOUT LOOSING AND BREAKDOWN

F. SOLDERING TEST

1. SOLDERABILITY TEST: a) TEST CONDITION:

FLUX: NEUTRAL FLUX SOLDER TEMP: 255°C± 5°C SOLDER TIME: 2 SECONDSINS

b) REQUIREMENT: 95% COVERAGE OF SOLDER ON LEAD

ECN# 07-131

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RoHS COMPLIANT

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NUMBER RJ-1004-30U-NL "BLUE"

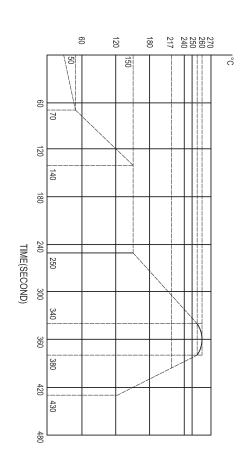
2. RESISTANCE TO SOLDERING HEAT TEST:

a) WAVE SOLDERING(FOR SMD TYPE PRODUCTS)

AT TEMPERATURE OF 260°C± 5°C BETWEEN THE TIP OF THE TERMINAL AND THE COPPER SURFACE OF 0.8 MILLIMETER THICKNESS PC BOARD USED AT THE CONCLUSION OF THIS THE TERMINAL OF THE SOCKET SHALL BE DIPPED IN MOLTEN SOLDER FOR 5± 0.5 SECOND TEST, THE SOCKET SHALL BE SHOWN REMARKABLE FAILURE

b) REFLOW SOLDERING(FOR SMD TYPE PRODUCTS)

STARTING FROM THE NORMAL ROOM TEMPERATURE AT AROUND 25°C AND UP TO $260^{\circ}\text{C} \pm 5^{\circ}~ ext{OVER}$ $360~ ext{SECOND.THE DETAILS ARE SHOWN AS THE FOLLOWING FLOW CHART$ THE SOCKET SHALL BE PLACED IN A REFLOW SOLDER FURNACE WITH THE TEMPERATURE



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G ENDURANCE

LIFE TEST: THE LIFE TEST SHALL BE CONSIST OF 5,000 CYCLES OF INSERTION AND WITHDRAWAL WITH THE MATING PLUG COVERED WITH A THIN COAT OF GREASE IN ORDER TO PREVENT FROM HEATING OF WEARING,AT A RATE OF 24 CYCLES PER MINUTES UNDER NO OR RATED LOAD.

H. ENVIRONMENTAL.

- HEAT TEST: THE SOCKET SHALL BE IN THE TESTING CHAMBER AT A TEMPERATURE OF 85°C± 2°C
 AND THE RELATIVE HUMIDITY OF LESS THAN 50%RH FOR 96 HOURS AND THEN PLACED IN AMBIENT
 TEMPERATURE FOR MORE THAN 30 MINUTES RECOVERY PERIOD. THE RELATIVE TEST BEFORE AND
 AFTER THIS TEST SHOULD COMPLIED WITH PARAGRAPH D.2.
- 2. COLD TEST: THE SOCKET SHALL BE PLACED IN THE TESTING CHAMBER AT A TEMPERATURE OF -35°C± 2°C AND THE RELATIVE HUMIDITY OF LESS THAN 50% RH FOR 96 HOURS AND THEN PLACED IN AMBIENT TEMPERATURE FOR MORE THAN 30 MINUTES RECOVERY PERIOD. THE RELATIVE TEST BEFORE AND AFTER THIS TEST SHOULD COMPLIED WITH PARAGRAPH D.2.
- 3. HUMIDITY TEST: THE SOCKET SHALL BE PLACED IN THE TESTING CHAMBER AT A CONDITION OF 40°C±2°C AND THE RELATIVE HUMIDITY OF 90% TO 95%RH FOR 96 HOURS THE DEW DROPS ON THE SURFACE OF SOCKET AND PLACED IN AMBIENT TEMPERATURE FOR MORE 30 MINUTES RECOVERY PERIOD. THE RELATIVE TEST BEFORE AND AFTER THIS TEST SHOULD COMPLIED WITH PARAGRAPH D.2.

I. MEASURING CONDITION:

ALL MEASUREMENTS AND TEST SHALL BE MADE AT A TEMPERATURE $10^\circ\mathrm{C}$ TO $35^\circ\mathrm{C}$ WITH A RELATIVE HUMIDITY $45\%\mathrm{RH}$ TO $85\%\mathrm{RH}$ UNDER STANDARD ATMOSPHERIC PRESSURE UNLESS OTHERWISE SPECIFIED CONDITIONS

J. OPERATING TEMP:

-25°C TO +85°C

K. AMENDMENT:

THE MANUFACTURE RESERVE THE RIGHT TO ADJUST OR MODIFY TO THE PRODUCTS AND THE CONTENTS OF THIS SPECIFICATION WHENEVER IT IS NECESSARY FOR ANY IMPROVEMENT

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