

D E S C R I P T I O NPRODUCT COVERED:

USR/CNR Component Connector, Series RAST 5 PCB Tab Header Assemblies.

GENERAL:

These devices are multi-pole connectors intended for factory assembly on printed wiring boards where the acceptability of combinations is determined by Underwriters Laboratories Inc.. The devices are identified as follows:

* USR indicates investigation to United States Standards, UL 1977, **Second Edition**.

CNR indicates investigation to Canadian National Standards, C22.2 No. 182.3-M1987.

Electrical Ratings:

USR, CNR 20 A, 250 V (Silver plated contacts only)

USR 20 A, 250 V (Tin plated contacts)

CNR 16 A, 250 V (Tin plated contacts)

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

Use - For use only in or with complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Conditions of Acceptability - In order to be judged acceptable as a component of electrical equipment, the following conditions should be met.

Interruption of Current

1. These devices have not been tested for interrupting the flow of current by connecting or disconnecting the mating connector. These devices should be used only where they will not interrupt the flow of current.

Current-Carrying Capability and Current Ratings

2. These devices have been subjected to the Temperature test with the rated currents and maximum temperature rise values tabulated below. The conductors terminated by the device and other associated components are to be reviewed in the end-use to determine whether the temperature rise from the connector exceeds their maximum operating temperature ratings.

Series	Contact Plating		Current, A	Max. Temp °C	Max Temp Rise, °C
RAST 5	Tin	USR	20	66.3	
RAST 5	Tin	CNR	16		28.4
RAST 5	Silver	USR, CNR	20	51.3	26.3

3. These devices may be used at potentials not exceeding 250 V based on Dielectric Voltage-Withstand testing conducted at 1500 V ac.

Insulating Materials

4. The insulating materials used in these devices comply with the requirements of UL 1977 and CSA C22.2 No. 182.3.

5. (USR Only) The operating temperature of these devices should not exceed the temperature ratings of the insulating materials. These materials may be used interchangeably at a maximum temperature of 130°C.

6. Mold Stress Relief testing was conducted at a temperature of 140°C.

Terminations

7. The printed-wiring-board terminals have not been evaluated for mechanical secureness. The construction of the connector is to be reviewed when it is assembled to the particular printed wiring board used in the end-use application.

Mounting

8. The suitability of the mounting means shall be determined in the end use.

9. The placement of these devices within the equipment enclosure should be such that spacings between the live parts and the equipment are suitable for the particular application.

10. The electrical and mechanical contact between the connector and the printed wiring board is to be judged in the end-use equipment.

11. The need to provide additional mounting hardware to mechanically secure the connector to the printed wiring board is to be determined in the end-use.