

DESCRIPTION

PRODUCT COVERED:

USR/CNR Component, Series MULTIGIG RT Power Connectors, Cat. Nos. 1410270, 1410271, 1410278, 1410279 and 1410457.

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 Rating:

USR, CNR - 27.6 A, 250 V ac

TECHNICAL 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. When subjected to the Temperature test, these devices exhibited a maximum temperature rise of 21.1°C above ambient temperature when carrying rated current of 27.6 A. The conductors (PCB) the device is terminated to and other associated components are to be reviewed in the end-use to determine whether they temperature rise from the connector exceeds their maximum operating temperature ratings.

Spacings and Voltage Ratings

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

4. These devices have live parts that may be exposed to user contact when the connector is energized. They are intended for use only within a complete enclosure.

Insulating Materials

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

6. 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 240°C.

7. Mold Stress Relief testing was conducted at a temperature of 250°C.

Terminations

8. These devices employ terminals which are not suitable for field wiring.

9. The printed-wiring-board (press-fit) 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

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

11. 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.

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

13. 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.