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Project 04ME11322

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REPORT

on

COMPONENT - CONNECTORS FOR USE IN DATA, SIGNAL, CONTROL
AND POWER APPLICATIONS

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Harrisburg, PA

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

Component Connector, Series LGA775, LGA1155, LGA1156 and LGA2011 Socket Series.

USR / CNR Component Connector, Series, LGA1356-2, LGA1366 and LGA1567 Socket Series.

USR / CNR Component Connector, series LGA3647-0, LGA3647-1, LGA3647-2, LGA3647-3, with left segment and/or right segment.

RATINGS: No electrical ratings.

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.

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

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 not been subjected to the Temperature test and as a result do not have an assigned current rating. The device's current-carrying capability is to be reviewed in the end-use by measuring temperatures on the connector housing and/or terminals when current is flowing through the connector under conditions of normal use.

Spacings and Voltage Ratings

3. The suitability of the minimum 0.28 mm (0.011 in) spacings for LGA775, and minimum 0.19 mm (0.008 in) spacings for LGA1155 and LGA1156, and minimum 0.27 mm (0.010 in) spacing for LGA2011 between live parts of opposite polarity (including adjacent poles) and between live parts and exposed dead metal parts shall be determined in the end use. The suitability of the minimum 0.26mm (0.010 in) spacings for LGA1356-2, LGA1366 and LGA1567 between live parts of opposite polarity and exposed dead metal parts shall be determined in the end use. **The suitability of the minimum 0.30 mm (0.011 in) spacings for LGA3647-0, LGA3647-1, LGA3647-2, LGA3647-3 series between live parts of opposite polarity and exposed dead metal parts shall be determined in the end use.** Dielectric-Voltage-Withstand testing has not been performed.

Insulating Materials

4. The insulating materials used in these devices comply with the requirements of UL 1977.

5. 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.