

# Wiring, Printed – Flexible Material Constructions – Component

## COMPANY

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| Type                                                                                                     | Cond Width |       |              | SS/<br>DSO | Max<br>Area<br>Diam | Report<br>date<br>After<br>2022-<br>01-01 | Surface<br>Mount<br>Technology | Assembly Solder |         | Solder |      | Max<br>Oper |     | Meets<br>UL796F | C<br>T |        |
|----------------------------------------------------------------------------------------------------------|------------|-------|--------------|------------|---------------------|-------------------------------------------|--------------------------------|-----------------|---------|--------|------|-------------|-----|-----------------|--------|--------|
|                                                                                                          | Min        | Edge  | Thk          |            |                     |                                           |                                | Process         | Process | Limits | Temp | Flame       |     |                 |        |        |
|                                                                                                          | mm         | mm    | mic          |            |                     |                                           |                                |                 |         |        |      |             | °C  |                 |        | Cycles |
| Multilayer flexible materials interconnect constructions, Flammability Recognition only                  |            |       |              |            |                     |                                           |                                |                 |         |        |      |             |     |                 |        |        |
| HD-FM03                                                                                                  | -          | -     | -            | DS         | -                   | No                                        | -                              | -               | -       | 288    | 10   | -           | V-0 | -               | -      |        |
| HD-FM04                                                                                                  | -          | -     | -            | DS         | -                   | No                                        | -                              | -               | -       | 288    | 10   | -           | V-0 | -               | -      |        |
| HD-FM05                                                                                                  | -          | -     | -            | DS         | -                   | No                                        | -                              | -               | -       | 288    | 10   | -           | V-0 | -               | -      |        |
| Multilayer flexible materials interconnect constructions, Flexible application                           |            |       |              |            |                     |                                           |                                |                 |         |        |      |             |     |                 |        |        |
| HD-FM06                                                                                                  | 0.06       | 0.06  | 14<br>Int:35 | DS         | 25.4                | No                                        | -                              | -               | -       | 288    | 10   | 105         | V-0 | -               | -      |        |
| Multilayer flexible materials interconnect constructions, for rigid-flex application                     |            |       |              |            |                     |                                           |                                |                 |         |        |      |             |     |                 |        |        |
| HD-FM02                                                                                                  | 0.07       | 0.07  | 12<br>Int:35 | DS         | 50.8                | No                                        | -                              | -               | -       | 288    | 10   | 105         | V-0 | -               | -      |        |
| Multilayer Rigid Flex Composite, Flexible Materials Interconnect Constructions, for flexible application |            |       |              |            |                     |                                           |                                |                 |         |        |      |             |     |                 |        |        |
| HD-RF06(Note1)                                                                                           | 0.06       | 0.06  | 12           | DS         | 25.4                | No                                        | -                              | -               | -       | 280    | 20   | 105         | V-0 | -               | -      |        |
| Multilayer Rigid Flexible Materials Interconnect Constructions                                           |            |       |              |            |                     |                                           |                                |                 |         |        |      |             |     |                 |        |        |
| HD-FM01                                                                                                  | 0.08       | 0.08  | 9<br>Int:17  | DS         | 50.8                | No                                        | -                              | -               | -       | 288    | 10   | 105         | V-0 | -               | -      |        |
| Multilayer rigid-flex flexible materials interconnect constructions, Fle-to-install application          |            |       |              |            |                     |                                           |                                |                 |         |        |      |             |     |                 |        |        |
| HD-RF08(ASP 1)<br>(Note 3)                                                                               | 0.058      | 0.058 | 12<br>Int:35 | DS         | 18                  | Yes                                       | Yes                            | 260             | 3       | -      | -    | 105         | V-0 | All             | 4      |        |
| Multilayer rigid-flex flexible materials interconnect constructions, Flexible application                |            |       |              |            |                     |                                           |                                |                 |         |        |      |             |     |                 |        |        |
| HD-RF09(Note 2)                                                                                          | 0.05       | 0.05  | 12<br>Int:35 | DS         | 18                  | Yes                                       | Yes                            | 260             | 3       | -      | -    | 105         | V-0 | All             | 4      |        |
| HD-RF10(Note 1)                                                                                          | 0.06       | 0.06  | 14<br>Int:35 | DS         | 25.4                | No                                        | -                              | -               | -       | 288    | 10   | 105         | V-0 | -               | -      |        |
| HD-RF11 The external copper thickness in flex area is 12-35mic, and it's 12-                             | 0.05       | 0.05  | 12<br>Int:35 | DS         | 25.4                | No                                        | -                              | -               | -       | 288    | 20   | 105         | V-0 | -               | -      |        |

|                                                                                                                                                   |       |       |              |    |      |     |     |     |   |     |    |     |       |     |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|--------------|----|------|-----|-----|-----|---|-----|----|-----|-------|-----|---|
| 102mic in rigid area with 35mic maximum internal copper thickness.                                                                                |       |       |              |    |      |     |     |     |   |     |    |     |       |     |   |
| HD-RF12<br>The external copper thickness in flex area is 12~35mic, and it's 12~102mic in rigid area with 35mic maximum internal copper thickness. | 0.05  | 0.05  | 12<br>Int:35 | DS | 25.4 | No  | -   | -   | - | 288 | 20 | 105 | V-0   | -   | - |
| Single layer Flex-to-Install, Flexible Materials Interconnect Constructions                                                                       |       |       |              |    |      |     |     |     |   |     |    |     |       |     |   |
| HD-F06                                                                                                                                            | 0.07  | 0.15  | 12           | DS | 25.4 | No  | -   | -   | - | 280 | 10 | 105 | V-0   |     | - |
| Single layer flexible materials interconnect constructions                                                                                        |       |       |              |    |      |     |     |     |   |     |    |     |       |     |   |
| HD-F11                                                                                                                                            | -     | -     | -            | DS | -    | No  | -   | -   | - | 288 | 10 | -   | VTM-0 | -   | - |
| HD-F12                                                                                                                                            | -     | -     | -            | DS | -    | No  | -   | -   | - | 288 | 10 | -   | V-0   | -   | - |
| Single layer flexible materials interconnect constructions, for flexible application                                                              |       |       |              |    |      |     |     |     |   |     |    |     |       |     |   |
| HD-DF16                                                                                                                                           | 0.05  | 0.05  | 12           | DS | 25.4 | No  | -   | -   | - | 280 | 20 | 105 | V-0   | -   | - |
| Single layer flexible materials interconnect constructions, Flammability Recognition only                                                         |       |       |              |    |      |     |     |     |   |     |    |     |       |     |   |
| HD-F01                                                                                                                                            | -     | -     | -            | DS | -    | No  | -   | -   | - | 288 | 10 | -   | V-0   | -   | - |
| HD-F02                                                                                                                                            | -     | -     | -            | DS | -    | No  | -   | -   | - | 288 | 10 | -   | V-0   | -   | - |
| HD-F03                                                                                                                                            | -     | -     | -            | DS | -    | No  | -   | -   | - | 288 | 10 | -   | V-0   | -   | - |
| HD-F04                                                                                                                                            | -     | -     | -            | DS | -    | No  | -   | -   | - | 288 | 10 | -   | V-0   | -   | - |
| HD-F05                                                                                                                                            | -     | -     | -            | DS | -    | No  | -   | -   | - | 288 | 10 | -   | VTM-0 | -   | - |
| HD-F07                                                                                                                                            | -     | -     | -            | DS | -    | No  | -   | -   | - | 288 | 10 | -   | V-0   | -   | - |
| HD-F08                                                                                                                                            | -     | -     | -            | DS | -    | No  | -   | -   | - | 288 | 10 | -   | V-0   | -   | - |
| HD-F09                                                                                                                                            | -     | -     | -            | DS | -    | No  | -   | -   | - | 288 | 10 | -   | V-0   | -   | - |
| HD-F10                                                                                                                                            | -     | -     | -            | DS | -    | No  | -   | -   | - | 288 | 10 | -   | V-0   | -   | - |
| Single layer flexible materials interconnect constructions, Flexible application                                                                  |       |       |              |    |      |     |     |     |   |     |    |     |       |     |   |
| HD-DF04                                                                                                                                           | 0.05  | 0.05  | 12           | DS | 25.4 | No  | -   | -   | - | 288 | 20 | 105 | V-0   | All | * |
| HD-DF05                                                                                                                                           | 0.05  | 0.05  | 12           | DS | 25.4 | No  | -   | -   | - | 288 | 20 | 105 | V-0   | -   | * |
| HD-SF03                                                                                                                                           | 0.06  | 0.06  | 14           | SS | 25.4 | No  | -   | -   | - | 288 | 10 | 105 | V-0   | -   | * |
| Single layer flexible materials interconnect constructions, for flexible application                                                              |       |       |              |    |      |     |     |     |   |     |    |     |       |     |   |
| HD-DF06(ASP 1)                                                                                                                                    | 0.058 | 0.058 | 12           | DS | 18   | Yes | Yes | 260 | 3 | -   | -  | 105 | V-0   | All | 4 |
| HD-SF01                                                                                                                                           | 0.05  | 0.05  | 12           | SS | 25.4 | No  | -   | -   | - | 280 | 20 | 105 | V-0   | -   | - |

\* - CTI marking is optional and may be marked on the printed wiring board.

(ASP 1) – Assembly solder process evaluated to IPC–TM–650, 2.6.27 Thermal Stress Assembly Simulation.

(Note 1) – The external copper thickness in flex area is 14–35mic, and it's 12–102mic in rigid area.

(Note 2) – For single layer flexible construction: the external copper thickness is 12mic–35mic. For rigid/flex construction: the external copper thickness is 12mic–102mic.the internal copper thickness is 35mic.

(Note 3) – For multilayer flex-to-install construction: the external copper thickness is 12mic–35mic,the internal copper thickness is 35mic. For rigid/flex construction: the external copper thickness is 12mic–102mic.the internal copper thickness is 35mic.

Note1 – For single layer flexible area, the external copper thickness is 12mic–35mic. For rigid arear, the external copper thickness is 12mic–102mic



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