

# Wiring, Printed – Component

**COMPANY**
**E347973**
**HUADING GROUP CO LTD**

12/F, Nanfung Centre

264-298 Castle Peak Rd

Tsuen Wan, Hong Kong

| Type                                                                             | Cond Width |       |           |     | Max  | Report     |            |          |         |        |      |       |       | Max   |   |  |
|----------------------------------------------------------------------------------|------------|-------|-----------|-----|------|------------|------------|----------|---------|--------|------|-------|-------|-------|---|--|
|                                                                                  | Min        |       | Cond      | SS/ | Area | date       | Surface    | Assembly | Solder  | Solder | Oper |       |       | Meets | C |  |
|                                                                                  | Min        | Edge  | Thk       | DS/ | Diam | After      | Mount      | Process  | Process | Limits | Temp | Flame | UL796 | T     |   |  |
|                                                                                  |            |       |           |     |      | 2022-01-01 |            | Temp     |         |        |      |       |       |       |   |  |
| Type                                                                             | mm         | mm    | mic       | DSO | mm   | 2022-01-01 | Technology | °C       | Cycles  | °C     | sec  | °C    | Class | DSR   | I |  |
| Metal Base Single Layer Printed Wiring Boards with Flammability Only Recognition |            |       |           |     |      |            |            |          |         |        |      |       |       |       |   |  |
| HD-MC04                                                                          | -          | -     | -         | SS  | -    | No         | -          | -        | -       | 288    | 10   | -     | V-0   | -     | - |  |
| Multilayer printed wiring boards                                                 |            |       |           |     |      |            |            |          |         |        |      |       |       |       |   |  |
| HD-03                                                                            | 0.15       | 0.45  | 17 Int:35 | DS  | 25.4 | No         | -          | -        | -       | 260    | 10   | 105   | V-0   | All   | - |  |
| HD-05                                                                            | 0.1        | 0.1   | 17 Int:68 | DS  | 50.8 | No         | -          | -        | -       | 288    | 20   | 130   | V-0   | All   | 1 |  |
| HD-06                                                                            | 0.075      | 0.075 | 17 Int:68 | DS  | 50.8 | No         | -          | -        | -       | 288    | 20   | 130   | V-0   | All   | 3 |  |
| HD-09                                                                            | 0.15       | 0.45  | 17 Int:35 | DS  | 25.4 | No         | -          | -        | -       | 280    | 10   | 110   | V-0   | All   | * |  |
| HD-M02                                                                           | 0.1        | 0.3   | 17 Int:24 | DS  | 25   | No         | -          | -        | -       | 250    | 10   | 130   | V-0   | All   | * |  |
| HD-M12                                                                           | 0.1        | 0.1   | 18 Int:70 | DS  | 25.4 | No         | -          | -        | -       | 280    | 10   | 130   | V-0   | All   | * |  |
| HD-M13 (ASP 1)                                                                   | 0.1        | 0.1   | 18 Int:70 | DS  | 25.4 | Yes        | Yes        | 260      | 3       | -      | -    | 130   | V-0   | All   | * |  |
| HD-M20                                                                           | 0.075      | 0.2   | 17 Int:70 | DS  | 50.8 | No         | -          | -        | -       | 288    | 20   | 110   | V-0   | All   | * |  |
| HD-M21                                                                           | 0.15       | 0.25  | 17 Int:70 | DS  | 50.8 | No         | -          | -        | -       | 288    | 20   | 130   | V-0   | All   | * |  |
| HD-M22                                                                           | 0.1        | 0.1   | 12 Int:70 | DS  | 50.8 | No         | -          | -        | -       | 288    | 20   | 130   | V-0   | All   | * |  |
| HD-M23                                                                           | 0.15       | 0.45  | 17 Int:34 | DS  | 50.8 | No         | -          | -        | -       | 288    | 20   | 130   | V-0   | All   | 0 |  |
| HD-M24                                                                           | 0.08       | 0.24  | 17 Int:34 | DS  | 25.4 | No         | -          | -        | -       | 260    | 10   | 130   | V-0   | All   | * |  |

|                   |      |      |               |    |       |     |     |     |   |     |    |     |     |     |   |
|-------------------|------|------|---------------|----|-------|-----|-----|-----|---|-----|----|-----|-----|-----|---|
| HD-M25            | 0.08 | 0.08 | 17<br>Int:34  | DS | 25.4  | No  | -   | -   | - | 280 | 10 | 130 | V-0 | All | * |
| HD-M26            | 0.08 | 0.24 | 17<br>Int:102 | DS | 76.2  | No  | -   | -   | - | 288 | 20 | 130 | V-0 | All | * |
| HD-M27            | 0.08 | 0.08 | 12<br>Int:70  | DS | 25.4  | No  | -   | -   | - | 288 | 10 | 130 | V-0 | All | * |
| HD-M28            | 0.35 | 0.35 | 17<br>Int:175 | DS | 50.8  | No  | -   | -   | - | 255 | 5  | 130 | V-0 | All | * |
| HD-M29            | 0.25 | 0.3  | 17<br>Int:212 | DS | 50.8  | No  | -   | -   | - | 288 | 10 | 130 | V-0 | All | * |
| HD-M30            | 0.25 | 0.3  | 17<br>Int:212 | DS | 50.8  | No  | -   | -   | - | 288 | 10 | 130 | V-0 | All | * |
| HD-M31            | 0.08 | 0.24 | 17<br>Int:34  | DS | 50.8  | No  | -   | -   | - | 260 | 10 | 130 | V-0 | All | * |
| HD-M32            | 0.08 | 0.1  | 17<br>Int:60  | DS | 50.8  | No  | -   | -   | - | 288 | 20 | 130 | V-0 | All | 4 |
| HD-M33            | 0.05 | 0.05 | 10<br>Int:102 | DS | 76.2  | No  | -   | -   | - | 280 | 20 | 130 | V-0 | All | * |
| HD-M34            | 0.05 | 0.05 | 10<br>Int:102 | DS | 76.2  | No  | -   | -   | - | 280 | 20 | 130 | V-0 | All | * |
| HD-M35            | 0.05 | 0.05 | 10<br>Int:68  | DS | 76.2  | No  | -   | -   | - | 280 | 20 | 130 | V-0 | ▲   | 3 |
| HD-M36<br>(ASP 1) | 0.05 | 0.05 | 10<br>Int:68  | DS | 76.2  | Yes | Yes | 260 | 6 | -   | -  | 130 | V-0 | All | 3 |
| HD-M37            | 0.05 | 0.05 | 10<br>Int:68  | DS | 152.4 | No  | -   | -   | - | 288 | 20 | 130 | V-0 | All | * |
| HD-M38            | 0.05 | 0.05 | 10<br>Int:68  | DS | 152.4 | No  | -   | -   | - | 288 | 20 | 130 | V-0 | All | * |
| HD-M39            | 0.05 | 0.05 | 10<br>Int:68  | DS | 152.4 | No  | -   | -   | - | 288 | 20 | 130 | V-0 | All | * |
| HD-M40            | 0.05 | 0.05 | 10<br>Int:68  | DS | 76.2  | No  | -   | -   | - | 280 | 20 | 130 | V-0 | All | 3 |
| HD-M41            | 0.05 | 0.05 | 10<br>Int:68  | DS | 76.2  | No  | -   | -   | - | 280 | 20 | 130 | V-0 | All | 2 |
| HD-M42            | 0.05 | 0.05 | 10<br>Int:68  | DS | 76.2  | No  | -   | -   | - | 280 | 20 | 130 | V-0 | All | 2 |
| HD-M43            | 0.05 | 0.05 | 10<br>Int:102 | DS | 76.2  | No  | -   | -   | - | 280 | 20 | 130 | V-0 | All | * |
| HD-M44            | 0.05 | 0.05 | 10<br>Int:68  | DS | 76.2  | No  | -   | -   | - | 280 | 20 | 130 | V-0 | All | 2 |
| HD-M45            | 0.05 | 0.05 | 10<br>Int:68  | DS | 152.4 | No  | -   | -   | - | 288 | 20 | 130 | V-0 | All | * |
| HD-M46<br>(ASP1)  | 0.05 | 0.05 | 10<br>Int:68  | DS | 76.2  | Yes | Yes | 260 | 6 | -   | -  | 130 | V-0 | All | * |
| HD-M47            | 0.10 | 0.10 | 12<br>Int:68  | DS | 76.2  | No  | -   | -   | - | 280 | 20 | 105 | V-0 | All | * |

|                                                                    |      |      |            |    |      |     |     |     |   |     |    |     |     |     |   |
|--------------------------------------------------------------------|------|------|------------|----|------|-----|-----|-----|---|-----|----|-----|-----|-----|---|
| HD-M48 (ASP1)                                                      | 0.05 | 0.05 | 10 Int:68  | DS | 76.2 | Yes | Yes | 260 | 6 | -   | -  | 130 | V-0 | All | * |
| HD-M49                                                             | 0.05 | 0.05 | 10 Int:68  | DS | 76.2 | No  | -   | -   | - | 280 | 20 | 130 | V-0 | All | * |
| HD-M50                                                             | 0.05 | 0.05 | 10 Int:68  | DS | 76.2 | No  | -   | -   | - | 280 | 20 | 130 | V-0 | All | 3 |
| HD-M51                                                             | 0.05 | 0.05 | 11 Int:35  | DS | 76   | No  | -   | -   | - | 288 | 20 | 120 | V-0 | All | * |
| HD-M52                                                             | 0.05 | 0.05 | 10 Int:102 | DS | 76.2 | No  | -   | -   | - | 280 | 20 | 130 | V-0 | All | * |
| Multilayer Printed Wiring Boards                                   |      |      |            |    |      |     |     |     |   |     |    |     |     |     |   |
| HD-M53                                                             | 0.05 | 0.05 | 10 Int:68  | DS | 76.2 | No  | -   | -   | - | 280 | 20 | 130 | V-0 | All | 3 |
| Multilayer printed wiring boards                                   |      |      |            |    |      |     |     |     |   |     |    |     |     |     |   |
| HD-M54                                                             | 0.05 | 0.05 | 10 Int:68  | DS | 76.2 | No  | -   | -   | - | 280 | 20 | 130 | V-0 | All | 3 |
| HD-ML10                                                            | 0.08 | 0.1  | 17 Int:102 | DS | 76.2 | No  | -   | -   | - | 288 | 20 | 130 | V-0 | All | * |
| HD-ML11                                                            | 0.08 | 0.1  | 17 Int:102 | DS | 76.2 | No  | -   | -   | - | 288 | 20 | 130 | V-0 | All | * |
| HD-ML12                                                            | 0.05 | 0.05 | 17 Int:34  | DS | 76.2 | No  | -   | -   | - | 280 | 10 | 105 | V-0 | All | * |
| HD-ML13                                                            | 0.1  | 0.2  | 17 Int:34  | DS | 76.2 | No  | -   | -   | - | 260 | 10 | 105 | V-0 | All | - |
| HD-ML14                                                            | 0.1  | 0.2  | 17 Int:34  | DS | 76.2 | No  | -   | -   | - | 260 | 10 | 105 | V-0 | All | - |
| HD-ML16 (Note 1)(ASP 1)                                            | 0.25 | 0.25 | 12 Int:102 | DS | 25.4 | Yes | Yes | 260 | 6 | -   | -  | 150 | V-0 | All | * |
| Multilayer Printed Wiring Boards with Flammability Recognized only |      |      |            |    |      |     |     |     |   |     |    |     |     |     |   |
| HD-M55                                                             | -    | -    | -          | DS | -    | No  | -   | -   | - | 280 | 20 | -   | V-0 | -   | - |
| Multilayer printed wiring boards, flammability only Recognition    |      |      |            |    |      |     |     |     |   |     |    |     |     |     |   |
| HD-M14                                                             | -    | -    | -          | DS | -    | No  | -   | -   | - | 265 | 5  | -   | V-0 | -   | - |
| Single layer Metal Bae printed wiring boards                       |      |      |            |    |      |     |     |     |   |     |    |     |     |     |   |
| HD-MC15                                                            | 0.15 | 0.3  | 17         | SS | 50.8 | No  | -   | -   | - | 288 | 60 | 90  | V-0 | All | 0 |
| Single Layer Metal Base Printed Wiring Board                       |      |      |            |    |      |     |     |     |   |     |    |     |     |     |   |
| HD-MC10                                                            | 0.1  | 0.25 | 17         | SS | 50.8 | No  | -   | -   | - | 288 | 10 | 110 | V-0 | All | 0 |
| HD-MC11                                                            | 0.1  | 0.25 | 17         | SS | 50.8 | No  | -   | -   | - | 288 | 10 | 130 | V-0 | All | 0 |
| HD-MC18                                                            | 0.15 | 0.25 | 17         | DS | 50.8 | No  | -   | -   | - | 288 | 10 | 90  | V-0 | All | * |

|                                                                              |      |      |    |    |      |     |     |     |   |     |    |     |     |     |   |
|------------------------------------------------------------------------------|------|------|----|----|------|-----|-----|-----|---|-----|----|-----|-----|-----|---|
| HD-MC19                                                                      | 0.15 | 0.25 | 17 | DS | 50.8 | No  | -   | -   | - | 288 | 10 | 110 | V-0 | All | * |
| Single Layer Metal Base Printed Wiring Board, employing metal base laminate  |      |      |    |    |      |     |     |     |   |     |    |     |     |     |   |
| HD-MC16 (ASP 1)                                                              | 0.12 | 0.12 | 17 | SS | 76.2 | Yes | Yes | 260 | 6 | -   | -  | 150 | V-0 | All | * |
| Single Layer Metal Base Printed Wiring Board, employing metal base laminate. |      |      |    |    |      |     |     |     |   |     |    |     |     |     |   |
| HD-MC06                                                                      | 0.19 | 0.24 | 26 | SS | 50.8 | No  | -   | -   | - | 288 | 20 | 125 | V-0 | -   | - |
| Single Layer Metal Base Printed Wiring Board.                                |      |      |    |    |      |     |     |     |   |     |    |     |     |     |   |
| HD-MC08                                                                      | 0.1  | 0.3  | 17 | SS | 50.8 | No  | -   | -   | - | 288 | 30 | 90  | V-0 | -   | 0 |
| HD-MC20                                                                      | 0.15 | 0.25 | 17 | DS | 50.8 | No  | -   | -   | - | 288 | 10 | 140 | V-0 | All | * |
| Single layer printed wiring boards                                           |      |      |    |    |      |     |     |     |   |     |    |     |     |     |   |
| HD-02                                                                        | 0.12 | 0.36 | 17 | DS | 25.4 | No  | -   | -   | - | 260 | 10 | 130 | V-0 | All | - |
| HD-07                                                                        | 0.15 | 0.2  | 17 | DS | 25.4 | No  | -   | -   | - | 260 | 10 | 130 | V-0 | All | * |
| HD-08                                                                        | 0.1  | 0.1  | 17 | DS | 50.8 | No  | -   | -   | - | 288 | 20 | 130 | V-0 | All | * |
| HD-10                                                                        | 0.02 | 0.06 | 17 | DS | 25.4 | No  | -   | -   | - | 280 | 10 | 110 | V-0 | All | * |
| HD-D08 (ASP 1)                                                               | 0.1  | 0.1  | 18 | DS | 25.4 | Yes | Yes | 260 | 3 | -   | -  | 130 | V-0 | All | * |
| HD-D09                                                                       | 0.1  | 0.1  | 18 | DS | 25.4 | No  | -   | -   | - | 280 | 10 | 130 | V-0 | All | * |
| HD-D16 (Note 1)(ASP 1)                                                       | 0.25 | 0.25 | 12 | DS | 25.4 | Yes | Yes | 260 | 6 | -   | -  | 150 | V-0 | All | * |
| HD-D19                                                                       | 0.18 | 0.38 | 34 | SS | 25.4 | No  | -   | -   | - | 260 | 10 | 130 | V-0 | All | * |
| HD-D20                                                                       | 0.18 | 0.51 | 34 | SS | 25.4 | No  | -   | -   | - | 260 | 10 | 105 | V-0 | All | * |
| HD-D21                                                                       | 0.08 | 0.23 | 17 | DS | 25.4 | No  | -   | -   | - | 260 | 10 | 130 | V-0 | All | * |
| HD-D22                                                                       | 0.08 | 0.23 | 34 | SS | 25.4 | No  | -   | -   | - | 260 | 10 | 130 | V-0 | ▲   | * |
| HD-D23                                                                       | 0.08 | 0.23 | 17 | DS | 25.4 | No  | -   | -   | - | 260 | 10 | 130 | V-0 | All | * |
| HD-D24                                                                       | 0.08 | 0.24 | 17 | DS | 50.8 | No  | -   | -   | - | 260 | 10 | 130 | V-0 | All | * |
| HD-D25                                                                       | 0.08 | 0.24 | 17 | DS | 25.4 | No  | -   | -   | - | 280 | 10 | 130 | V-0 | All | * |
| Single Layer Printed Wiring Boards                                           |      |      |    |    |      |     |     |     |   |     |    |     |     |     |   |
| HD-                                                                          | 0.15 | 0.15 | 17 | DS | 50.8 | No  | -   | -   | - | 288 | 20 | 130 | V-0 | -   | * |

|                                    |       |       |    |    |      |    |   |   |   |     |    |     |     |     |   |
|------------------------------------|-------|-------|----|----|------|----|---|---|---|-----|----|-----|-----|-----|---|
| D26                                |       |       |    |    |      |    |   |   |   |     |    |     |     |     |   |
| HD-D27                             | 0.15  | 0.15  | 17 | DS | 50.8 | No | - | - | - | 288 | 20 | 105 | V-0 | -   | * |
| HD-D28                             | 0.15  | 0.15  | 34 | DS | 50.8 | No | - | - | - | 288 | 20 | 105 | V-0 | -   | - |
| Single layer printed wiring boards |       |       |    |    |      |    |   |   |   |     |    |     |     |     |   |
| HD-D29                             | 0.076 | 0.076 | 17 | DS | 50.8 | No | - | - | - | 288 | 10 | 130 | V-0 | All | * |
| HD-D30                             | 0.2   | 0.58  | 34 | SS | 25.4 | No | - | - | - | 260 | 10 | 130 | HB  | ▲   | * |
| Single Layer Printed Wiring Boards |       |       |    |    |      |    |   |   |   |     |    |     |     |     |   |
| HD-D31                             | 0.125 | 0.125 | 27 | DS | 50.8 | No | - | - | - | 288 | 20 | 105 | V-0 | -   | * |
| HD-D32                             | 0.1   | 0.2   | 17 | DS | 50.8 | No | - | - | - | 288 | 20 | 130 | V-0 | All | * |
| Single layer printed wiring boards |       |       |    |    |      |    |   |   |   |     |    |     |     |     |   |
| HD-D33                             | 0.15  | 0.15  | 17 | DS | 25.4 | No | - | - | - | 288 | 10 | 130 | V-0 | All | * |
| HD-D36                             | 0.10  | 0.10  | 17 | DS | 50.8 | No | - | - | - | 288 | 20 | 130 | V-0 | All | 3 |
| HD-D38                             | 0.05  | 0.05  | 10 | DS | 76.2 | No | - | - | - | 280 | 20 | 130 | V-0 | All | * |
| HD-D39                             | 0.05  | 0.05  | 10 | DS | 76.2 | No | - | - | - | 280 | 20 | 130 | V-0 | All | * |
| HD-D40                             | 0.05  | 0.05  | 17 | DS | 76.2 | No | - | - | - | 280 | 10 | 105 | V-0 | All | * |
| HD-D41                             | 0.1   | 0.2   | 17 | DS | 76.2 | No | - | - | - | 260 | 10 | 105 | V-0 | All | - |
| HD-D43                             | 0.1   | 0.2   | 17 | DS | 25.4 | No | - | - | - | 280 | 20 | 130 | V-0 | All | - |
| HD-D44                             | 0.05  | 0.05  | 10 | DS | 76.2 | No | - | - | - | 280 | 20 | 130 | V-0 | All | * |
| HD-D45                             | 0.05  | 0.05  | 10 | DS | 76.2 | No | - | - | - | 280 | 20 | 130 | V-0 | All | * |
| HD-D46                             | 0.05  | 0.05  | 17 | DS | 76   | No | - | - | - | 288 | 20 | 120 | V-0 | All | * |
| Single Layer Printed Wiring Boards |       |       |    |    |      |    |   |   |   |     |    |     |     |     |   |
| HD-D47                             | 0.06  | 0.075 | 10 | DS | 76.2 | No | - | - | - | 280 | 20 | 120 | V-0 | All | * |
| HD-D48                             | 0.05  | 0.05  | 10 | DS | 76.2 | No | - | - | - | 280 | 20 | 130 | V-0 | All | * |
| Single layer printed wiring boards |       |       |    |    |      |    |   |   |   |     |    |     |     |     |   |
| HD-M40                             | 0.1   | 0.2   | 17 | DS | 76.2 | No | - | - | - | 260 | 10 | 105 | V-0 | All | - |
| HD-S01                             | 0.20  | 0.48  | 35 | SS | 25.4 | No | - | - | - | 260 | 10 | 130 | V-1 | All | - |
| HD-S02                             | 0.20  | 0.48  | 35 | SS | 25.4 | No | - | - | - | 260 | 10 | 130 | V-0 | All | - |

|                                                                   |      |      |    |    |      |     |     |     |   |     |    |     |     |     |   |
|-------------------------------------------------------------------|------|------|----|----|------|-----|-----|-----|---|-----|----|-----|-----|-----|---|
| HD-S03                                                            | 0.15 | 0.15 | 34 | SS | 35   | No  | -   | -   | - | 260 | 10 | 130 | V-0 | All | * |
| HD-S04                                                            | 0.15 | 0.15 | 34 | SS | 35   | No  | -   | -   | - | 280 | 10 | 130 | V-0 | All | * |
| HD-S16 (ASP 1)                                                    | 0.10 | 0.10 | 25 | SS | 25.4 | Yes | Yes | 245 | 2 | -   | -  | 130 | V-0 | All | * |
| HD-S18                                                            | 0.15 | 0.15 | 34 | SS | 25.4 | No  | -   | -   | - | 288 | 10 | 130 | V-0 | All | * |
| HD-S26                                                            | 0.15 | 0.15 | 34 | SS | 25.4 | No  | -   | -   | - | 288 | 10 | 130 | V-0 | All | * |
| Single Layer Printed Wiring Boards Flammability Only Recognition  |      |      |    |    |      |     |     |     |   |     |    |     |     |     |   |
| HD-D17                                                            | -    | -    | -  | DS | -    | No  | -   | -   | - | 288 | 20 | -   | V-0 | -   | * |
| Single layer printed wiring boards, flammability only Recognition |      |      |    |    |      |     |     |     |   |     |    |     |     |     |   |
| HD-01                                                             | -    | -    | -  | DS | -    | No  | -   | -   | - | 288 | 15 | -   | V-0 | -   | - |
| HD-D05                                                            | -    | -    | -  | DS | -    | No  | -   | -   | - | 265 | 5  | -   | V-0 | -   | - |
| HD-D10                                                            | -    | -    | -  | DS | -    | No  | -   | -   | - | 280 | 10 | -   | V-0 | -   | - |
| HD-D11                                                            | -    | -    | -  | DS | -    | No  | -   | -   | - | 280 | 10 | -   | V-0 | -   | - |
| HD-D12                                                            | -    | -    | -  | DS | -    | No  | -   | -   | - | 280 | 10 | -   | V-0 | -   | - |
| HD-D13                                                            | -    | -    | -  | DS | -    | No  | -   | -   | - | 280 | 10 | -   | V-0 | -   | - |
| HD-D14                                                            | -    | -    | -  | DS | -    | No  | -   | -   | - | 280 | 10 | -   | V-0 | -   | - |
| HD-S05                                                            | -    | -    | -  | SS | -    | No  | -   | -   | - | 260 | 10 | -   | V-1 | -   | - |
| HD-S10                                                            | -    | -    | -  | SS | -    | No  | -   | -   | - | 260 | 10 | -   | V-0 | -   | - |
| Singlelayer printed wiring boards                                 |      |      |    |    |      |     |     |     |   |     |    |     |     |     |   |
| HD-D35                                                            | 0.08 | 0.1  | 17 | DS | 76.2 | No  | -   | -   | - | 288 | 20 | 130 | V-0 | All | * |
| HD-D37                                                            | 0.08 | 0.1  | 17 | DS | 76.2 | No  | -   | -   | - | 288 | 20 | 130 | V-0 | All | * |

\* - 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 - Minimum conductor width and edge conductor width is 0.075mm when external copper thickness is 12-102mic.

Minimum conductor width and edge conductor width is 0.25mm when external copper thickness is 103-140mic.

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