

# 32 WAY MQS RIGHT ANGLE HEADER TO BE SOLDERED ON PRINTED CIRCUIT BOARD

Product specification 108-15211

This specification covers the conditions of use, mechanical and electrical performances of Tyco Electronics 32 way MQS right angle header.

## 1. DESCRIPTION

Housing: Material: PBT-GF20 or SPS GF20 or PCT-GF30.

Coding: mechanical and visual (colors)
PCB mounting: ears for rivets or screws.
Polarization on the PCB with plastic pin.

Contacts: Dimension: 0,63 x 0,63 mm

Material: bronze

Post Plating: tin plated

#### 2. REFERENCE DOCUMENT

| P/N        | INTERFACE<br>SPECIFICATION | PCB INTERFACE        |  |
|------------|----------------------------|----------------------|--|
| X-953486-X | /                          | See Customer drawing |  |

## 3. CONDITIONS OF USE

Temperature:

- operating temperature : - 40°C / + 85°C

- test temperature : - 40°C / + 100°C

Nominal voltage: 12V

Sealing : not applicable

Maximum temperature for reflow process: +230°C (part in SPS material)

+250°C (part in PCT material)

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# 4. TEST

Test are carried according to IEC 60512 series.

| TEST                                       | Ref. | TEST CONDITIONS   | REQUIREMENTS                                 |  |
|--|------|---|--|--|
| GENERAL EXAMINATION                        |      |   |  |  |
| Visual examination                         | 1a   |   | No defect that would impair normal operation |  |
| ELECTRICAL TESTS                           |      |   |  |  |
| Insulation resistance                      | 3a   | Voltage: 100 V Methode A: test between one contact and the others   | Ri ≥ 50 MΩ                                   |  |
| Dielectric withstanding voltage            | 4a   | Voltage : 1000 V AC during 1 min.   | No breakdown or flashover                    |  |
| MECHANICAL TESTS                           |      |   |  |  |
| Contact retention in the housing           | 15a  | Applied an axial force of 25 N  | No damage                                    |  |
| Keying on the pcb                          |      | Applied force 50 N  | Will not fit the pcb                         |  |
| Polarization on the pcb                    | 15c  | Applied force 50 N  | Will not fit the pcb                         |  |
| OTHER TESTS                                |      |   |  |  |
| Mating force (receptacle housing/header)   |      | Apply a force at the end of the lever in the mating direction   | F ≤ 80 N                                     |  |
| Unmating force (receptacle housing/header) |      | Apply a force at the end of the lever in the unmating direction   | F ≤ 80 N                                     |  |
| Force retention receptacle housing/header  |      | Apply an axial force in the separation direction of the two connectors  | F≥ 100N                                      |  |
| Coding of receptacle housing/header        |      | Engage the receptacle housing in the header in every possible way except the right way but with the one of different coding | F≥ 150N                                      |  |

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