24 + 24 WAY MQS RIGHT ANGLE HEADERS WITH BOARD LOCKS

This specification covers the conditions of use, mechanical and electrical performances of AMP 24 + 24 way MQS right angle headers.

I. DESCRIPTION

The header is composed of 2 pockets, one of them can be without contact.
So, two families are available :- 100 % loaded headers ⟹24 + 24 w
- 50 % loaded headers ⟹ 24 + 0 w

Housing : Material : 10 % glass reinforced PBT.
Coding : mechanical.
PCB mounting : board locks.

Contacts: Dimension : 0,63 x 0,63 mm.
Material : bronze.
Post Plating : - selective gold plated over nickel on contact area.
- selective tin plated over nickel on soldered area.

Sealing : Radial seal.
Material : silicon.

II. REFERENCE DOCUMENT

P/N	INTERFACE SPECIFICATION	PCB INTERFACE
953621-X	_	See customer drawing

III. CONDITIONS OF USE

- Temperature

  - operating of temperature : - 40°C / + 85°C
  - test temperature : - 40°C / + 100°C

- Nominal voltage : 12V

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IV. TEST

Tests 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 Method A : test between one contact and the others	Ri ≥ 50MΩ
DIELECTRIC WITHSTANDING VOLTAGE	4a	Voltage : 1000 V AC during 1 min.	No breakdown or flashover
MECHANICAL TESTS			
FREE FALL		Fall from 1 meter height on concrete block	No damage
CONTACT RETENTION IN THE HOUSING	15a	Applied a axial force of 25 N	No damage
SOLDERING HEAT TEST		Heat the connector at 160° C for 3 min	No damage
HEADER MOUNTING ON THE PCB		Applied a force on header perpendicular to PCB	F ≤ 65 N
HEADER RETENTION ON THE PCB		Applied a force on header perpendicular to PCB	F ≥ 15 N
HEADER MOUNTING IN THE BOX		Applied a axial force	F ≤ 150 N
HEADER RETENTION ON THE BOX		Applied a axial force	F ≥ 200 N