24 + 32 WAY MQS RIGHT ANGLE HEADERS WITH ONE BOARD LOCK

This specification covers the conditions of use, mechanical and electrical performances of AMP 24 + 32 way MQS right angle headers.

1. DESCRIPTION

The header is composed of 2 pockets, 24 w + 32 w.

Housing : Material : 10 % glass reinforced PBT.
Coding : mechanical.
PCB mounting : one board lock and locating pin .

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.

2. REFERENCE DOCUMENT

P/N	INTERFACE SPECIFICATION	PCB INTERFACE
1379046-x	_	See customer drawing

3. CONDITIONS OF USE

- Temperature
  - operating of temperature : - 40 °C / + 85°C
  - test temperature : - 40°C / + 100°C
- Nominal voltage : 12V

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4. TEST

Tests are carried according to IEC 60512 series.

GENERAL EXAMINATION			
TEST	**Ref.**	**TEST CONDITIONS**	**REQUIREMENTS**
VISUAL EXAMINATION	1a		No defect that would impair normal operation
ELECTRICAL TESTS			
TEST	**Ref.**	**TEST CONDITIONS**	**REQUIREMENTS**
INSULATION RESISTANCE	3a	Voltage : 100 V Method A : test between one contact and the others	Ri $\geq$ 50MΩ
DIELECTRIC WITHSTANDING VOLTAGE	4a	Voltage : 1000 V AC during 1 min.	No breakdown or flashover
MECHANICAL TESTS			
TEST	**Ref.**	**TEST CONDITIONS**	**REQUIREMENTS**
FREE FALL		Fall from 1 meter height on concrete block	No damage
CONTACT RETENTION IN THE HOUSING	15a	Applied an 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 $\leq$ 35 N
HEADER RETENTION ON THE PCB		Applied a force on header perpendicular to PCB	F $\geq$ 10 N
HEADER MOUNTING IN THE BOX		Applied an axial force	F $\leq$ 150 N
HEADER RETENTION ON THE BOX		Applied an axial force	F $\geq$ 200 N