12 WAY MQS STRAIGHT HEADERS TO BE SOLDERED ON PRINTED CIRCUIT BOARD

This specification covers the conditions of use, mechanical and electrical performances of AMP 12 way MQS straight header.

1. DESCRIPTION

Housing : Material : 20 % glass reinforced PBT or 30 % glass reinforced SPS.
PCB mounting : board locks
Polarization on the PCB.

Contacts : Dimension : 0,63 x 0,63 mm.
Material : bronze.
Post Plating : tin plated.

2. REFERENCE DOCUMENT

P/N	Material	Interface specification	Pcb Interface
953130-X	PBT	208-15544	See customer drawing
1379114-X	SPS	208-15544	See customer drawing

3. CONDITIONS OF USE

- Temperature : - operating of temperature : - 40°C / +85°C
  - test temperature : - 40°C / +100°C
- Nominal voltage : 12V
- Sealing : not applicable.
- The PCB soldering process may require a prior conditioning of part to reduce moisture in excess.

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 TEST			
TEST	**REF.**	**TEST CONDITIONS**	**REQUIREMENTS**
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. A.C.	No breakdown or flashover
MECHANICAL TESTS			
TEST	**REF.**	**TEST CONDITIONS**	**REQUIREMENTS**
Free fall	Ed	Fall from 1 meter height on hard concrete	No damage
Contact retention in the housing	15a	Applied an axial force of 25 N	No damage
Soldering heat test (for PBT headers)		Heat the connector at 160° C for 3 min	No visible damage
Mounting header on the pcb		Applied an axial force	F ≤ 50 N
Retention header on the pcb		Applied an axial force	F ≥ 6,5 N (PBT) F ≥ 20 N (SPS)
Polarization on the pcb	13c	Applied force 50 N	Will not fit the PCB
Mounting header in panel		Applied an axial force	F ≤ 20 N