

This specification covers the conditions of use, mechanical and electrical performances of AMP 18 way MQS straight header, pitch 3.5 between rows.

1. DESCRIPTION

Housing : Material : 20 % glass reinforced PBT or SPS.
PCB mounting : board locks, or ears for rivets
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	PCB mounting
953466-X	PBT	/	See customer drawing	Board-locks
953871-X	PBT	/	See customer drawing	Ears
1379040-X	SPS	/	See customer drawing	Board-locks

3. CONDITIONS OF USE

- Temperature : - operating of 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)

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4. 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 Test			
Insulation resistance	3a	Voltage : 100 V Method A : test between one contact and the others	$R_i \geq 50M\Omega$
Dielectric withstanding voltage	4a	Voltage : 1000 V AC during 1 min. A.C.	No breakdown or flashover
Mechanical Tests			
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 (header with board-locks)		Applied an axial force	$F \leq 70$ N (PBT) $F \leq 50$ N (SPS)
Retention header on the pcb (header with board-locks)		Applied an axial force	$F \geq 20$ N
Polarization on the pcb	13c	Applied force 50 N	Will not fit the PCB