

# 18 WAY MQS STRAIGHT HEADERS PITCH 3,5 BETWEEN ROWS TO BE SOLDERED ON PRINTED CIRCUIT BOARD

Product specification 108-15210 08 November 00 Rev. B

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		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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		=	FC FROO-8417-00



## 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 3		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					
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 ≤ 70 N (PBT) F ≤ 50 N (SPS)				
Retention header on the pcb (header with board-locks)		Applied an axial force	F≥20 N				
Polarization on the pcb	13c	Applied force 50 N	Will not fit the PCB				

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