

This specification defines the general characteristics, the electrical and mechanical performances of the 16 way AMP-MCP right angle hybrid header to solder on the PCB.

1. PRESENTATION OF PRODUCT

1.1. Description

- Housing in PBT with 20 % GF
- Tab in post-tin
- Mechanical codings and visual codings with the mating connector
- Rapid fixation on the PCB (thickness $1.6 \pm 0,2$ mm)
- Coding and polarization in comparison with the PCB

2. REFERENCE DOCUMENTS

DESCRIPTION	AMP PART NUMBER	CONFORM TO DRAWING INTERFACE
16 W AMP MCP R.A HEADER	953371-X	208-15516

3. GENERAL REQUIREMENTS

- Temperature : Class 1 : - Environment temperature : - 40 / + 85°C
- Tests temperature : - 40 / +100°C
- Vibrations : Class A
- Tightness : Class O
- Nominal voltage : 12V

4. DEFINITION OF TEST

Test are carried according to IEC 60512.

GENERAL EXAMINATION			
Test	Ref.	Procedure	Approval
Visual examination	1a	Examination with the naked eye	Aspect : No defect affecting correct operation
ELECTRICAL TESTS			
Test	Ref.	Procedure	Approval
insulation resistance	3a	Test voltage : 100 V during 1 min between each contact	$R_i \geq 50M\Omega$

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dielectric withstanding voltage	4a	Test Voltage : 1000 V between one contact and all others joined to the mass	No breakdown No flashover
MECHANICAL TESTS			
Test	Ref.	Procedure	Approval
contact retention in the housing	15a	Apply on each contact an axial force of 100N	No deterioration
soldering heat resistance		Heat the header during 3 minutes to 160° C	No deterioration visible for the naked eye.