Product Specification (Preliminary) 108-5181

AMP "EI" Series Connector Post Header Assembly w/PCB Hole Holding Function

1. Scope:

This product specification provides requirements for product performance capability and test methods of AMP "EI" series connector post header assembly with PCB hole holding function of the following part numbers.

Part Number Post Header Ass'y	Part Number PVC Case Enclosed	Descriptions					
X - 172732 - X	X:- 172800 - X	AMP "EI" Series Connector, Post Header Assembly with PCB Hole Holding Function					

- 2. Material and Finish:
- 2.1 Post, Vertical Type:
- 2.1.1 Material: 0.64mm (.025") Square brass post, pretinned 0.8µm minimum thick, over 0.5µm minimum thick copper underplate
- 3. Quality Assurance Provisions:
- 3.1 Test Conditions:

Unless otherwise specified, all the tests shall be performed under any combination of the following test conditions.

Temperature: 15 - 35°C
Relative Humidity: 45 - 75%
Atmospheric Pressure: 650 - 800mmHg

- 3.2 Test Specimens:
- 3.2.1 Preparation:

The test specimens to be employed for the tests, shall be selected at random from current production system. They must be conforming to the requirements of applicable product drawing(s).

3.2.2 Reuse for Test:

No sample product shall be reused for the tests, unless otherwise specified.

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FINT	ō	Released RFA-629	7/2/	E 460	4-37	SHEET NAME Product Specification AMP "EI" Series Connector, Assembly w/PCB Hole Holdin					or. Post Hea	der
<u> </u>	LTR	REVISION RECORD	DR	CHK	DATE	1 OF <u>3</u>	Assembly	w/P	ÇБ	HOIS HOI	ding Functio	n.

4. Product Performance Capability:

When tested in accordance with the test conditions and test methods specified in the applicable paragraphs, the product post header assembly shall meet the requirements specified in this specification.

The following product specifications shall be used for determining criteria of product performance capability.

108-5130 Product Specification, Mass-Termination, AMP "EI" Series Connector 108-5118 Product Specification, AMP "EI" Series Connector

4.1 Summary of Performance Requirements:

Products shall show no abnormalilities such as cracks, blister and discoloration that are detrimental to connector functions. Post retention force shall be not less than 2.0 kg (4.41 lbs.) per contact. More than 95% of tested contact area shall be covered with fresh	Securely hold the post header on the fixture, and apply an axial push-in load to the tip end of post. Measure the force required to push-out the post from the header housing. After immersing soldering area of				
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area shall be covered with fresh	· · · · · · · · · · · · · · · · · · ·				
uniform and sufficiently working coverage of solder.					
After test exposure, no abnormalities such as deformation and defects that are detrimental to connector functions, shall be evident.	With the post header mounted on PCB, immerse soldering area of posts of header into soldering tub which is controlled at 260 -5°C, for 10 - 0.5 seconds to expose the sample under soldering heat.				
shall be just enough to sustain holding on into PCB holes at the	extract the posts of header into				
Table 1 (End)	EET AMP (Japan), Ltd. TOKYO, JAPAN OF_3 JA Nº 108-5181 REV. O1				
	After test exposure, no abnormalities such as deformation and defects that are detrimental to connector functions, shall be evident. Mounting force shall be not exceeding 3.0 kg (6.61 lbs.) and retention force before soldering shall be just enough to sustain holding on into PCB holes at the reversed position after insertion.				

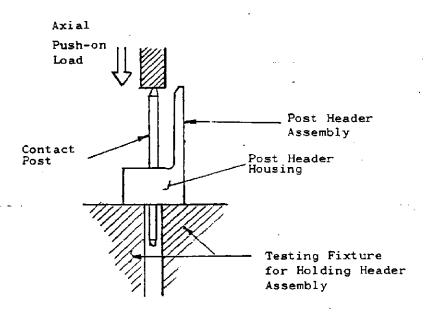


Fig. 1 Post Retention Force
Test Method

5. Test Sequence:

Evaluation testing shall be performed in the sequence specified in Table 2.

umber	The	Sample Groups							
	Test Item	. 1	2	3	4	-#-	<i>-#-</i> ·		
4.1.1	Appearance, Confirmation of Product	1	1	1	1	, #	-#-		
4.1.2	Post Retention Force	. 2			_	-#-	-#-		
4.1.3	Post Solderability		2	; ;)		-#	-#-		
4.1.4	'Post, Soldering Heat Resistivity			2	p.	#-	-#-		
4.1.5	Mounting Force and Reten- tion Force on PCB				2	-#-	#		

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