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		The following documents form a part of this specification to the extent specified here in the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of this specification and the referent documents, this specification shall take precedence.									produc	:t										
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# CLASSIFICATION 108-19078

DC

### PRODUCT SPECIFICATION

# 3. <u>REQUIREMENTS:</u>

# 3.1. <u>Design and Construction:</u>

Tabs shall be of the design and construction and physical dimensions specified on applicable product drawing.

### 3.2. Materials:

Base Material:

Phos. Bronze

Plating:

Tin-Lead over Nickel

### 3.3. Ratings:

A. Current:

40 amperes, 8 positions; 30 amperes, 6 positions.

B. Operating temperature

-55°C to 85°C including heating effects of the tab.

### 3.4. Performance and Test Description:

The product is designed to meet the electrical, mechanical and environmental performance requirements specified in 3.5. as tested per test sequence in 3.6. All tests are performed at ambient environmental conditions per IEC specification 512-1 unless otherwise specified.

## 3.5. <u>Test Requirements and Procedures Summary.</u>

Para	Test Description	Requirements	Procedure
3.5.1.	Examination of Product	Meets requirements of product drawing and application specification.	Visual, dimensional and functional per applicable quality inspection plan.
		ELECTRICAL	
3.5.2.	Contact Resistance	Max. rise 5 mΩ after tests	Measure between body of terminal and connecting printed circuit pad. Max voltage 20 mV Max. current 100 mA IEC 512-2 test 2a
3.5.3.	Temperature rise vs current	Max. 30°C temperature rise at rated current.	Apply rated current. Measure temperature after stabilization. See fig. 2 IEC 512-3 test 5a.
3.5.4.	Current cycling		Subject tabs to 250 cycles at 125 % of rated current for 15 minutes "on", 15 min. "off".

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R6-77 (REV.09-91)

### **PRODUCT SPECIFICATION**

# 3.5. <u>Test Requirements and Procedures Summary (cont'd).</u>

Para	Test Description	Requirements	Procedure
		MECHANICAL	
3.5.5.	Insertion Force ACTION PINS	1500 N maximum for 8 position 1125 N maximum for 6 position	Measure force necessary to mount Power Linking Terminal onto test board illustrated in Fig. 1 using proper insertion tooling.
3.5.6.	Extraction Force ACTION PINS	240 N min. for 8 position 180 N min. for 6 position.	Measure force necessary to remove Power Linking Terminal from printed circuit board.
	E	NVIRONMENTAL	
3.5.7.	Thermal Shock		Subject p.c.b. mounted terminals to 5 cycles of 30 min. at -55°C and 30 min. at +85°C IEC 512-6 test 11d.
3.5.8.	Dry Heat		Subject p.c.b. mounted terminals to 85°C for 56 days IEC 512-6 test 11i.

### 3.6. Test Sequence for Qualification.

Test Group	Test	Paragraph
1	Contact Resistance Temperature rise / current Current cycling Contact resistance	3.5.2. 3.5.3. 3.5.4. 3.5.2.
2	Insertion force Extraction force (half lot) Thermal Shock Dry Heat Extraction force (half lot)	3.5.5. 3.5.6. 3.5.7. 3.5.8. 3.5.6.

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AMP SECURITY CLASSIFICATION

DC

"E" "D"

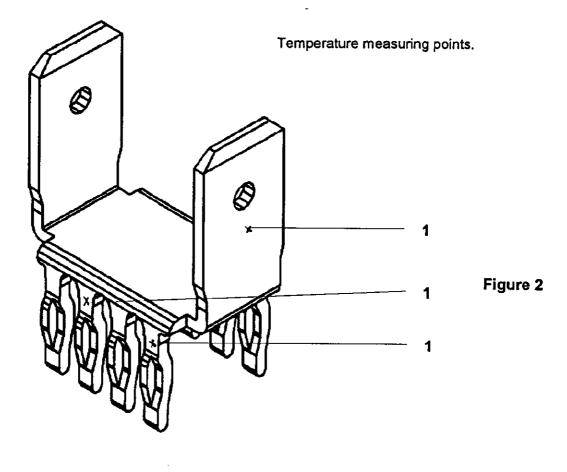
\_ Plated thru hole see Figure 3

Board material G-10, G-11 or FR-4, FR-5 (3,2 mm Thick. min)

Tab Contact	"B"	"C"	"D"	"E"
6 A.P.	2,54	5,08	***	7,62
8 A.P.	2,54	5,08	7,62	7,62

Rec'd	Drilled	Plating	Thickness	Hole Diameter		
Drill Size	Hole Dia	Copper	Tin/Lead	After Plating	After Reflow	
1,60 mm	± 0,025	0,025 0,075	0,004 0,010	1,39 1,54	1,36 1,54	

Figure 1
Printed Circuit Test Board



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