

TMC SPECIFICATION

NO. S1405

REV:

COMPILED: R. Uzzo

CHECKED:

APPD:

SHEET 1

OF 10

TITLE: FIRST ARTICLE APPROVAL - CONTRACTOR TESTING

SERIAL NO.

FIRST ARTICLE APPROVAL - CONTRACTOR TESTING

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SHEET 1

OF 10

TITLE: PRODUCTION TEST PROCEDURE

MODE SWITCHING ASSEMBLY

SERIAL NO. []

PRODUCTION TEST PROCEDURE

MODE SWITCHING ASSEMBLY

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TITLE: FIRST ARTICLE APPROVAL - CONTRACTOR TESTING

1. GENERAL INFORMATION

- a) CONTRACTOR - - - - - TECHNICAL MATERIEL CORPORATION
- b) CONTRACT ORDER NUMBER - - - DAAB07-81C-1131
ITEM 0006AC
- c) NOMENCLATURE - - - - - MODE SWITCHING ASSEMBLY
P/O AN/TPX -46 (V)
DRAWING NO. SM-D-586769

(EQUIPMENTS OF ESTABLISHED DESIGN)

- d) FIRST ARTICLE FABRICATED AT:
TECHNICAL MATERIEL CORPORATION
700 FENIMORE ROAD
MAMARONECK, NEW YORK 10543
- e) FIRST ARTICLE - - - - - STOCK NO. REPRESENTED BY
001 AND 002.
- f) FIRST ARTICLE TESTING LOCATION:
TECHNICAL MATERIEL CORPORATION
700 FENIMORE ROAD
MAMARONECK, NEW YORK 10543
- g) FIRST ARTICLE TESTING DATE _____
- h) FIRST ARTICLE TEST SPECIFICATION - - - SM-A-635359

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2. CROSS REFERENCING TABLE FOR SPECIFICATION SMA635359

SPECIFICATION SMA635359 REFERENCE PARAGRAPH NO.	SPECIFICATION DESCRIPTION	PAGE	PARAGRAPH NO.
3.2.1	POWER REQUIREMENTS	6	4.1
3.2.1.1	INPUT POWER CONNECTIONS	6	4.1
3.2.2.1.1	JUMPER CONNECTIONS FOR VOLTAGE MEASUREMENTS	6	4.2
3.2.2.2.1	NO LOAD VOLTAGE MEASURE- MENTS	6	4.3
3.2.3.1.1	RESISTANCE MEASUREMENTS, JUMPER CONNECTIONS	7	5.1
3.2.3.2.1	RESISTANCE MEASUREMENTS	7	5.2
3.2.3.2.2	VARIABLE RESISTANCE MEA- SUREMENTS	8	6.1
3.2.3.2.3	STEADY STATE RESISTANCE MEASUREMENTS	8	6.2

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NO LOAD VOLTAGE MEASUREMENT TEST CIRCUIT

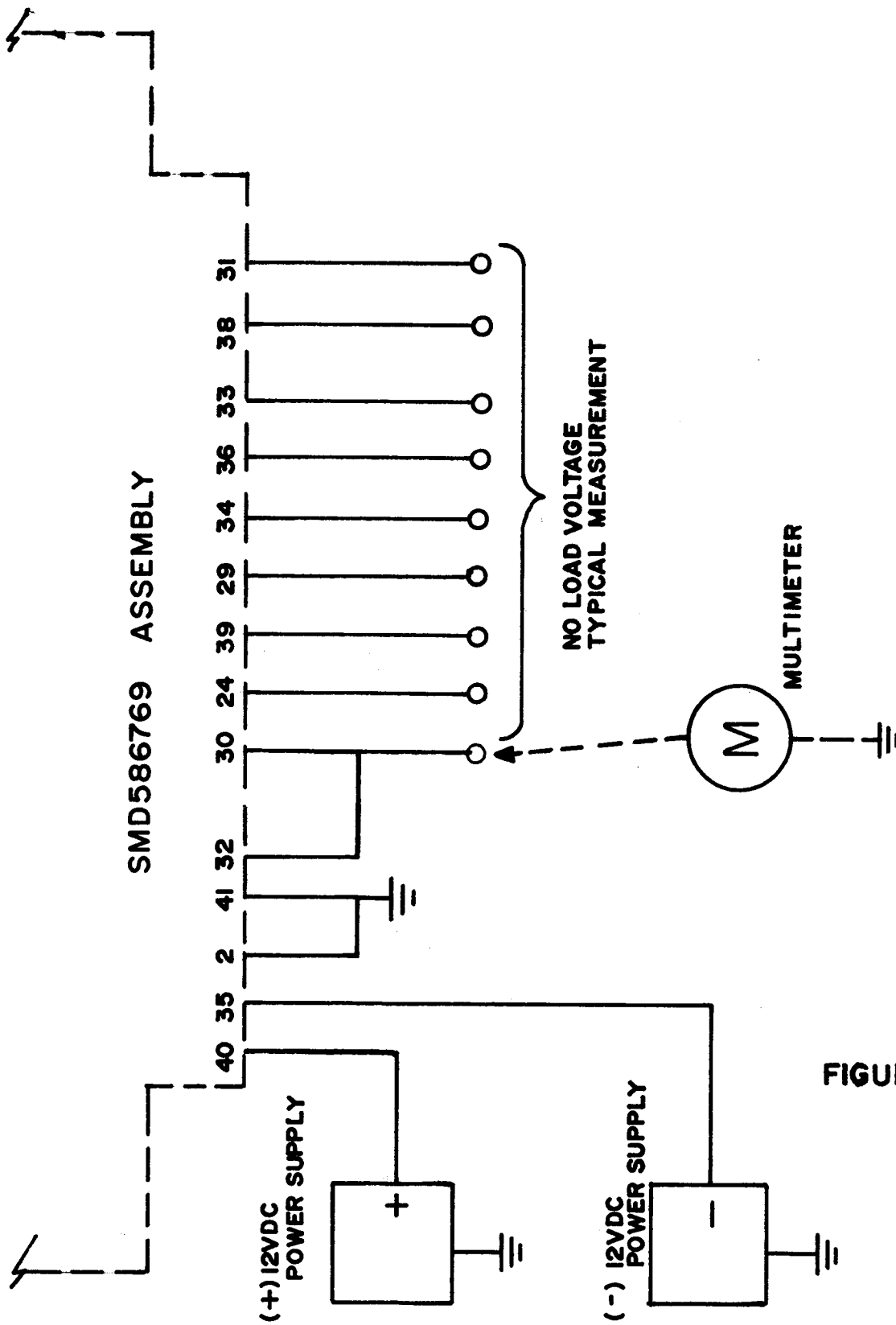


FIGURE 1

TMC SPECIFICATION

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RESISTANCE MEASUREMENTS TEST CIRCUIT

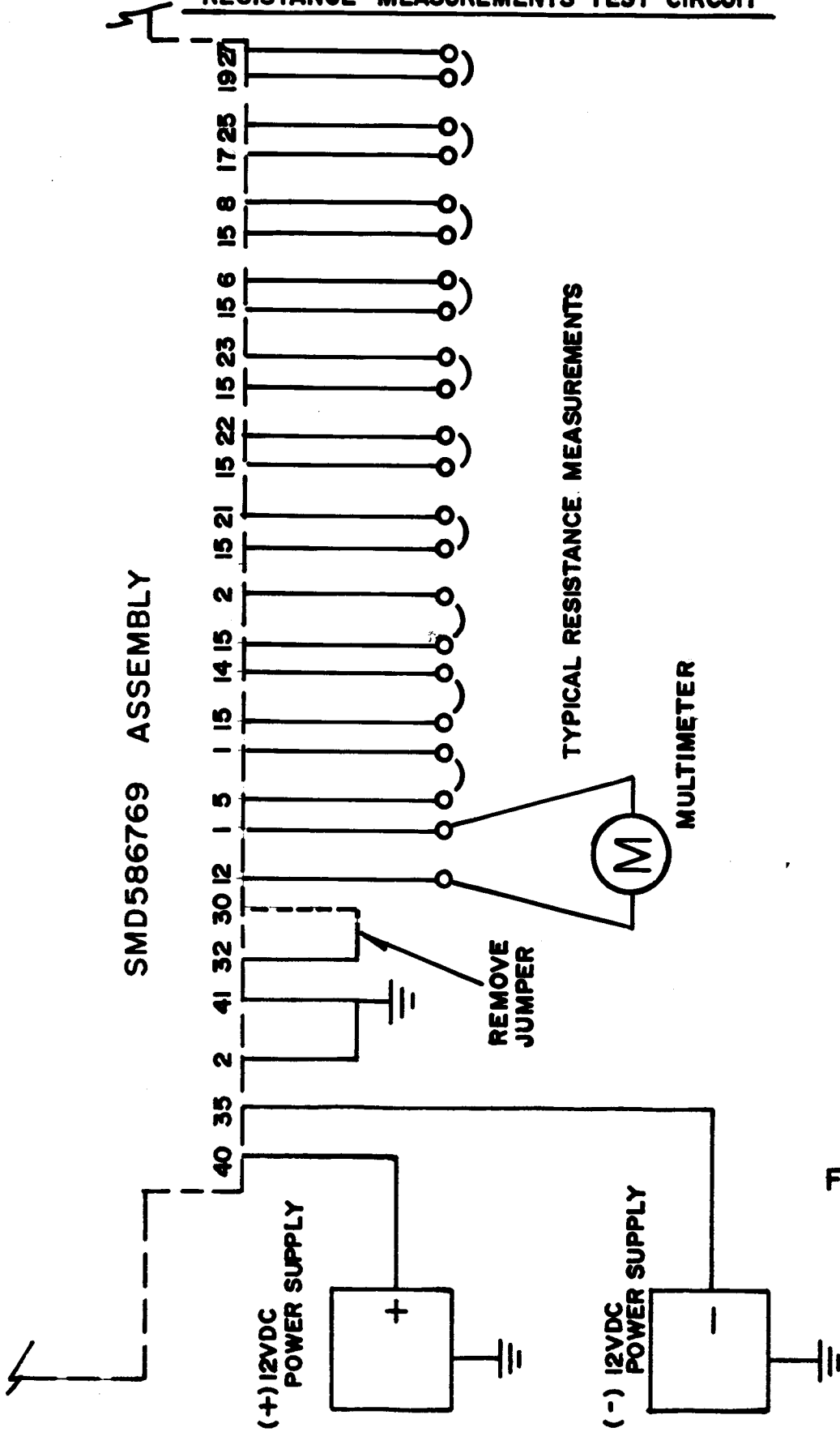


FIGURE 2

TMC SPECIFICATION

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TITLE: FIRST ARTICLE APPROVAL - CONTRACTOR TESTING

VARIABLE AND STEADY STATE RESISTANCE MEASUREMENT TEST CIRCUIT

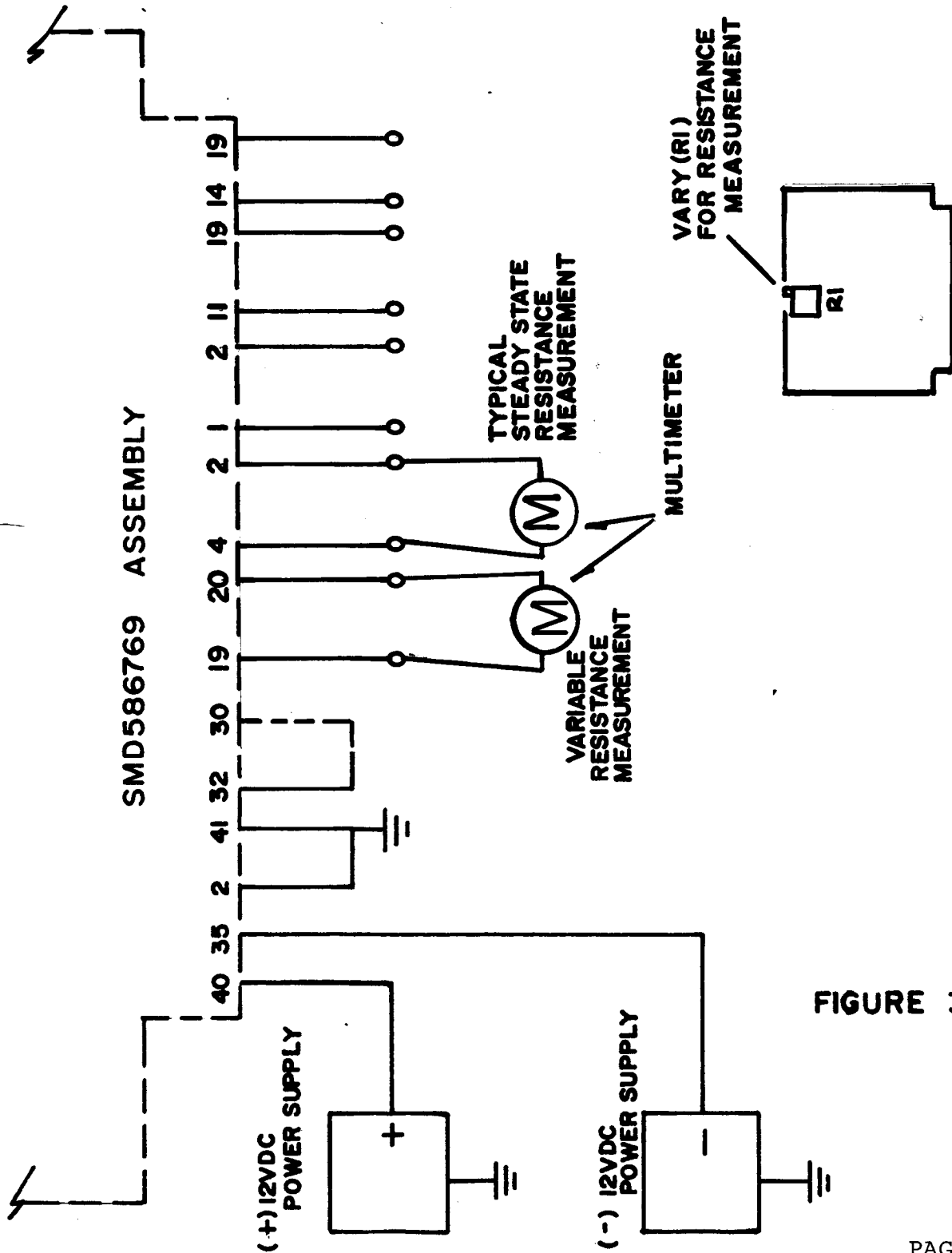


FIGURE 3

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3. TEST EQUIPMENT USED

- a) HEWLETT PACKARD REGULATED LV POWER SUPPLY, MODEL 6202B
TMC ID NO. 1913
- b) CON AVIONICS REGULATED LV POWER SUPPLY, MODEL W32-5
TMC ID NO. 1921
- c) FLUKE MULTIMETER, MODEL 8020B, SERIAL NO. 2801343
CALABRATION DATE 5/27/82
(CERTIFICATE OF CONFORMANCE AVAILABLE)

3. 1) REFERENCE DATA USED

- a) SMA635359 (TEST SPECIFICATION)
- b) SMD586769 (ASSEMBLY DRAWING)
- c) SME586869 (SCHEMATIC DRAWING)

4. TESTING PROCEDURE FOR NO LOAD VOLTAGE MEASUREMENTS

(REFERENCE FIGURE 1)

- 4. 1) REQUIRED POWER FOR TESTING IS, +12VDC \pm 0.1 and -12VDC \pm 0.1
A REGULATED LV POWER SUPPLY SET TO +12VDC WAS CONNECTED TO PIN 40 OF P1. A SECOND REGULATED LV POWER SUPPLY SET TO -12VDC WAS CONNECTED TO PIN 35 OF P1. THE GROUND RETURN FOR EACH POWER SUPPLY WAS CONNECTED TO PINS 2 AND 41 OF P1 (GND).
- 4. 2) A JUMPER WIRE WAS CONNECTED BETWEEN PIN 30 AND PIN 32 OF P1.
- 4. 3) THE FOLLOWING NO LOAD VOLTAGE MEASUREMENTS WERE RECORDED FOR THE CONNECTOR PINS (P1) AS LISTED, USING THE FLUKE MULTIMETER.

REQUIRED MEASUREMENT	CONNECTOR PINS (P1)	SERIAL NO. _____ MEASUREMENT
0 \pm 0.5 VDC	30	_____ VDC
\pm 9.6 \pm 0.3 VDC	24	_____ VDC
+ 7.2 \pm 0.3 VDC	39	_____ VDC

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REQUIRED MEASUREMENT	CONNECTOR PINS (P1)	SERIAL NO. _____ MEASUREMENT
+ 4.8 ± 0.3 VDC	29	_____ VDC
+ 2.4 ± 0.3 VDC	34	_____ VDC
- 2.4 ± 0.3 VDC	36	_____ VDC
- 4.8 ± 0.3 VDC	33	_____ VDC
- 7.2 ± 0.3 VDC	38	_____ VDC
- 9.6 ± 0.3 VDC	31	_____ VDC

5. TESTING PROCEDURE FOR RESISTANCE MEASUREMENTS

(REFERENCE FIGURE 2)

5. 1) THE JUMPER WIRE THAT WAS CONNECTED BETWEEN PIN 30 AND PIN 32 OF (P1) WAS REMOVED.
5. 2) THE FOLLOWING RESISTANCE MEASUREMENTS WERE RECORDED FOR THE CONNECTOR PINS (P1) AS LISTED, USING THE FLUKE MULTIMETER.

REQUIRED MEASUREMENT	CONNECTOR PINS (P1)	SERIAL NO. _____ MEASUREMENT
52K ± 5K	12 & 1	
4.7 ± 0.5K	5 & 1	
44K ± 5K	15 & 4	
11K ± 2K	15 & 2	
2.5K ± .3K	15 & 21	

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REQUIRED MEASUREMENT	CONNECTOR PINS (P1)	SERIAL NO. _____ MEASUREMENT
6.2K + .7K -	15 & 22	
10K + 1K -	15 & 23	
14K + 2K -	15 & 6	
17K + 2K -	15 & 8	
6.8K + 0.6K -	17 & 25	
6.8K + 0.6K -	19 & 27	

6. TEST PROCEDURE FOR VARIABLE AND STEADY STATE RESISTANCE MEASUREMENTS

(REFERENCE FIGURE 3)

6. 1) THE MULTIMETER WAS PLACED BETWEEN PINS 19 AND 20 OF (P1). R1 OF THE ASSEMBLY SM-D-586769 WAS VARIED AND THE MEASUREMENTS RECORDED.

REQUIRED MEASUREMENT	CONNECTOR PINS (P1)	SERIAL NO. _____ MEASUREMENT
LESS THAN 0.5K GREATER THAN 23K	19 AND 20	_____ _____

6. 2) THE FOLLOWING STEADY STATE RESISTANCE MEASUREMENTS WERE RECORDED FOR THE CONNECTOR PINS THAT ARE LISTED. TEST WAS PERFORMED VARYING R1.

REQUIRED MEASUREMENT	CONNECTOR PINS (P1)	SERIAL NO. _____ MEASUREMENT
GREATER THAN 30 K	4 AND 2	_____

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REQUIRED MEASUREMENT	CONNECTOR PINS (P1)	SERIAL NO. _____ MEASUREMENT
GREATER THAN 100K OHMS	1 AND 2	GREATER THAN _____
GREATER THAN 100K OHMS	11 AND 19	GREATER THAN _____
GREATER THAN 100K OHMS	14 AND 19	GREATER THAN _____

7. ALL TEST REQUIREMENTS FOR THE MODE SWITCHING ASSEMBLY SMD586769 HAVE BEEN COMPLIED WITH, IN ACCORDANCE WITH "TEST REQUIREMENTS MODE SWITCHING ASSEMBLY SMA635359".

ALL TEST PROCEDURES SPECIFIED IN THIS TEXT WILL BE IMPLEMENTED DURING TESTING OF ALL SMD586769 ASSEMBLIES.

DATE TEST WAS PERFORMED _____

TESTERS SIGNATURE _____ SERIAL NO. _____

APPROVED BY

GOVERNMENT REPRESENTATIVE _____

DATE _____