GENERAL (%) ELECTRIC

2 7 7 A 3 6 7 7

CONT ON SHEET 2 SH NO. 1

REV NO. 2 7 7 A 3 6 7 7

CONT ON SHEET 2

TEST SPECIFICATIONS

TITLE

FIRST MADE FOR IC3600AMLG1

REVISIONS

1.0 SCOPE

SH NO. 1

THIS DOCUMENT ESTABLISHES THE PERFORMANCE REQUIREMENTS AND RECOMMENDED TESTS FOR THE ANALOG MULTIPLIER/DIVIDER CARD AMLG.

2.0 TEST EQUIPMENT REQUIRED

- 1. ± 15 VOLT POWER SUPPLIES, ± .2 VOLTS 60MA MAX. CURRENT.
- 2. 2 DIGITEC 3110 PRECISION VOLTAGE SOURCES OR EQUIVALENT 0 TO ± 10 VOLT ADJUSTABILITY TO ± 1.0 MV.
- 3. DANA 5900 DIGITAL VOLTMETER OR EQUIVALENT 5 PLACE ACCURACY.
- 4. SEVEN 1KO 1/2 WATT RESISTORS, 68A7030P100E. /

3.0 TEST CONNECTIONS AND LOADING

1. POWER SUPPLIES

CONNECT +15 VOLTS \pm .2 VOLTS TO PIN 27, ACOM TO PIN 2. CONNECT -15 VOLTS \pm .2 VOLTS TO PIN 29, ACOM TO PIN 2.

2. LOADS

- 1. CONNECT $2K\Omega$ (TWO $1K\Omega$ RESISTORS IN SERIES, 68A7030P100E) BETWEEN AOUT (24) AND ACOM (2).
- 2. CONNECT 2KΩ BETWEEN BOUT (3) AND ACOM (2).
- 3. CONNECT $2K\Omega$ BETWEEN COUT (10) AND ACOM (2).
- 4. CONNECT A 1K Ω RESISTOR BETWEEN HOUT (46) AND ACOM (2, 50).

4.0 MULTIPLIER TESTS

THIS CARD CONTAINS THREE IDENTICAL MULTIPLIER CIRCUITS. REFER TO THE TABLE BELOW FOR PIN NUMBERS DURING THE REMAINING TESTS. PERFORM THE FOLLOWING TESTS ON CIRCUIT A, REPEAT THE TESTS FOR CIRCUITS B AND C PER THE TABLE.

INPUT	CIRCUIT A	CIRCUIT B	CIRCUIT C
X1	AX1 (23) × 2	BX1 (9)	CX1 (17)
X2	AX2 (22)	BX2 (8)	CX2 (16)
Y1	AY1 (21)	BY1 (7)	CY1 (15)
Y2	AY2 (20) 7 (BY2 (6)	CY2 (14)
Z1	AZ1 (25)	BZ1 (4)	CZ1 (11)
Z2	AZ2 (19)	BZ2 (5)	CZ2 (12)
OUT	AOUT (24)	BOUT (3)	COUT (10)

R. E. GRUBBS

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APPROVALS

DRIVE SYSTEMS
SALEM, VA. U.S.A.

DIV OR DEPT.

277A3677

LOCATION CONT ON SHEET 2 SH NO. 1

2520 DCS.

PRINTS TO

FF-803 WF (3~76) PRINTED IN U.S.A.

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REV NO.	TITLE		CONT ON SHEET 3 SH N	o. 2
		W. A. C.	•	
277A3677	TEST SPECIFICAT			
CONT ON SHEET 3 SH NO. 2 FIRST MADE FOR I C3600AMLG1				
A-25424 MILLTIPLICAT				REVIS
MOLITICA	ION MODE			l
1. TIE 21	TO OUT. 24, 3, 10			
C 1118/0 TIE Z2,	X2, AND Y2 TO ACOM.			
// CONNECT	ONE VARIABLE VOLTAGE	SOURCE TO X1 AND THE	E OTHER TO Y1.	
A VARJFY	THE FOLLOWING OUTPUTS	PER THE INPUTS LIST	ED BELOW (ALL INPUTS	
1 10 1/	BE SET TO ± 1MV ACCURA			
2 Com	/ A A A	W M		İ
15481		1 207		
Market Ma	03 B 100 B	A ± 15MV	ndorklardijki yanning	1
C TU CO OV	(G) /+104 (G)	b_{\pm} 35MV		
(12,14,16) +10	(1) / +10V / 5) # 40MV		1
+10V	+10V	+ 65MV	A CONTRACTOR OF THE PROPERTY O	
10 COW +10V	+11/	± 40MV		ŀ
+1.0V	(2 2) Nov 20	2 ± 35MV		}
+100	-10V	+ 60MV	u	
recognitioners.	1-10V	The second secon		
ga suraspecial;	ระบบสมรณาสาราสารสาราชาการ การาสาราชาการาชาการาชาการาชาการาชาการาชาการาชาการาชาการาชาการาชาการาชาการาชาการาชากา	± 50MV	TO A STATE OF THE	
-10V	+1 OV	+ 60MV		1
2. LEAVE ZI	CONNECTED TO OUT. RE	MOVE X1 AND Y1 FROM	VARIABLE VOLTAGE AND THE	
XI AND Y	L TO ACOM. CONNECT TH	HE VARIABLE VOLTAGE S	SOURCES TO X2 AND Y2.	
(INPUTS	SET ± 1MV).	SEE ABOVE FOR ALL 3 (CIRCUITS. Z2 TO ACEM	
3 REMOVE A	L INPUT CONNECTIONS.			
	16 18) "\"		1 7 80
DIVISION MOD	_ ^^ \	5		780804 9-28-78
	O OUT. TIE X2, Y1, AN	ND ZI, TO ACOM. CONNI	ECT THE VARIABLE VOLTAGE	87.0
	3 101		TS PER THE INPUTS LISTED	130
			FOR ALL THREE CIRCUITS.	TSO TSO
			TON ALL TRINEL CINCOTTO.	REV.1
<u>Z2</u>	XI	OUT		REV PEV
OV	+1.0V	ov <u>+</u> 35m∨		<u> </u>
+1V +10V	+10V +10V	+1V ± 40MV +10V ± 50MV		
+1 V	+17	+10V ± 150MV		
-1V	'+1V	-10V ± 150MV		
-1V	+1 OV	-1V ± 50MV		2520
				Dr3.
				13-46
ADE MY	APPROVALS			PRINTS
R. E. GRUBBS	I DRIVE S	YSTEMS DIV C	or PT. 277A3677	
2/1./77	RED SALEM, V	A. U.S.A. LOCATIO	_	2

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GENERAL (S) ELECTRIC

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CONT ON SHEET FL SH NO.

REV NO. TITLE

277A3677

CONT ON SHEET FL

TEST SPECIFICATIONS

FIRST MADE FOR 103600AMLG1

REVISIONS

DIVISION MODE (CONTINUED)

X2, YI TO Acom

2. TIE Z2 TO ACOM, LEAVE Y2 CONNECTED TO OUT. CONNECT X1 AND Z1 TO VARIABLE VOLTAGE SOURCES. VARIFY THE OUTPUTS PER THE TABLE ON SHEET 2 ON ALL THREE CIRCUITS, EXCEPT THAT THE <u>POLARITY OF THE OUTPUTS IS</u> <u>REVERSED</u>. (INPUTS SET ± 1MV).

5.0 ANALOG MEMORY TEST

TIE READB (40) TO ACOM.(2)

TIE READA (39) TO P15. (27)

CONNECT A +10.0 VOLT SIGNAL ± 2MV TO AMIN (33). VERIFY THAT HOUT (46)

IS +10.0 VOLTS ± 25MV. LEAVE THE 10 VOLT SIGNAL CONNECTED FOR two

MINUTE AND THEN OPEN THE P15 VOLT CONNECTION TO READA. RECORD THE

VOLTAGE ON HOUT (46), IT SHOULD BE +10 VOLTS ± 25MV. WAIT 5 MINUTES AND.

RECORD THE VOLTAGE ON HOUT AGAIN. THE VOLTAGE SHOULD NOT HAVE

END OF TEST

993

DRIFTED MORE THAN + 17.5MV.

KEV.1 CGL /OC

2520 DL5"

PRINTS TO

MADE BY
R. E. GRUBBS

APPROVALS
DRIVE SYSTEMS
DIV OR
DEPT. 2 7 7 A 3 6 7 7

6/18/1

SALEM, VA. U.S.A.

LOCATION CONT ON SHEET FL

sh no. 3

CODE IDENT NO.

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