

REV NO. 1

TITLE

MULTIPLIER/DIVIDER
TEST INSTRUCTION

CONT ON SHEET FL. SH NO. 1

224X684AA

CONT ON SHEET FL. SH NO. 1

FIRST MADE FOR 193X245AAG01

1.0 Scope

This instruction covers the test procedure for production testing of the 193X245AAG01 multiplier/divider card. Its performance and capabilities are covered in engineering specification 224X340AA. Test conditions are in section 3.0.

2.0 Adjustments

These adjustments should be made with tab 20 connected to tab 26. Upon completion of these adjustments, no further card testing is necessary.

2.01 Short tabs 19, 27 and 28 to common. Trim output (tab 18) to 0 volts ($\pm .02V$) by adding resistors R561 and/or R563 as necessary.

2.02 With tabs 19 and 27 shorted to common, place ± 5.00 Volt peak, 60 Hz sine wave on tab 28. Trim output to minimum signal ($\pm .02$ Volts) by adding R567 and/or R568 as necessary.

2.03 With tabs 27 & 28 shorted to common, place ± 5.00 volt peak 60 Hz sine wave on tab 19. Trim output to minimum signal (± 0.1 volts) by adding R569 and/or R570 as necessary.

2.04 Repeat step 2.01, adding resistors R561 and R563 in parallel if necessary.

2.05 With tab 27 shorted to common, place ± 5.00 volt peak 60 Hz sine wave on tabs 19 and 28. Trim output for even height peaks (app. 2.5 volts) by paralleling resistors R569 and/or R570 as necessary.

2.06 With ± 5.00 volt peak sine wave applied to tabs 19 & 28 as in 2.05 above, trim output for 2.5 volt peaks by adding resistors R579 and/or R581 as necessary.

2.07 With tab 28 shorted to common and ± 5.00 peak 60 Hz sine wave applied to tabs 19 & 27, check the output for peaks of -2.5 volts $\pm .1$ volt. If the error is more than $\pm .1V$, half the error by paralleling resistors R579 and/or R581 as necessary.

2.08 If the peaks are no longer even in height, re-trim as in 2.05 by paralleling resistors R567 and/or R568 as necessary.

3.0 Test Conditions

3.01 Room temperature

3.02 + 20 volts DC to tab 31 ($\pm .2$ volts)

3.03 - 20 volts DC to tab 2 ($\pm .2$ volts)

4.0 Re-Qualification

This card should be requalified by quality control every 18 months or every 1000 production cards, whichever occurs first.

REVISIONS

Chg 2.01, 2.02
9/28/72

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5D (BW)

5E (BW)

5F (T)

5QC (2BW)

PRINTS TO

MADE BY

APPROVALS

SPEED VARIATOR

DIV OR
DEPT.

224X684AA

ISSUED

ERIE, PA.

LOCATION

CONT ON SHEET FL. SH NO. 1