REVISIO:

GENERAL ELECTRIC

0 CONT ON SHEET TITLE 2 REGULATOR DC-3032R TEST INSTRUCTION 224X697AB 2 sh No. CONT ON SHEET

FIRST MADE FOR

193X252AAG01 & G02

1.0 SCOPE

This instruction covers the procedure for production testing the DC-3032R (Feed Drive) regulator cards 193X252AAG01 & G02. Their performance and capabilities are covered in Engineering Spec 224X250AA. Test conditions

2.0 INSTRUCTIONS

are in Section 3.0.

- 2.01 30 Volt Power Supplies. Tabs 29 and 22 are the plus and minus 30 volt power supplies respectively. With a 60 OHM load, those supplies should be between 26 to 36 volt DC with less than 6 V ripple P-P.
- 2.02 20 Volt Power Supplies. Tabs 31 and 2 are the plus and minus 20 volt power supplies respectively. The supplies should be between 19.6 and 20.4 volt with the ±30V supplies load as in 2.01. Apply a 165 ohm load to the ±20V supplies and they should sag less than .01 volt.
- 2.03 Regulator. Apply 5V to tab 13 on GO1, and through a 6.81K ±1%, resistor on GO2. The regulator output, tab 6 should be 7.42V ±.12V The first stage output should rest at 0.00 volts.
- 2.04 FET switch. With 5V applied as in 2.03 above, short tab 16 to common. Tab 11 should go to -6 (±10%) for GO1,-12V min on GO2. Tab 6 should go to between +8.3 and 8.8V. Now apply -5V to tab 13 as above. Tab 11 should go to +6 (±10%) on GO1 and +12V min on GO2 and tab 6 should go to between -8.3 and -8.8V.
- 2.05 Feedback. With a -5V applied as in 2.04, apply a +6V signal to tab 18; tab 6 should go to -7.42V ±.12V. Remove the tab 18 signal and place a 6.8K resistor between tabs 3 & 14; tab 6 should go to between 4.85 to 5.15 volts.

5D (BW)

5E(BW) 5K(BW)

5L(BW)

5P (BW)

5QC(2) 5R(BW)

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224X697AB TEST INSTRUCTION

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REVISION

- 2.06 <u>Auxiliary Amplifier</u>. Place a 10K 1% resistor between tabs 8 & 9 and a 10K 1% resistor from tab 9 to common. Place -5V on tab 10. Tab 8 should go to -10V ($\pm 2\%$).
- 2.07 Apply a -10V at tab 13 (tab 16 open) on GO1 direct, on GO2 through a 6.81K ±1% resistor. On GO1 measure a maximum of +7V at tab 11, on GO2 measure a minimum of +12V at tab 11.

3.0 TEST CONDITIONS

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- 3.01 Test cards must be supplied by the 6 phase star connected transformer in synchronizing transformer assembly 331X260AA. The star center should be connected to common (tab 15). The six phases should be connected to tabs 23 to 28 inclusive. The voltage listed below refers to the supply for the STA.
- 3.02 Supply Voltage: 205V AC min, 3 phase to STA (GO1 assembly).
- 3.03 Ambient Temperature: Room temperature

4.0 REQUALIFICATION

These cards should be requalified by Quality Control every 18 months of 200 production cards, whichever occurs first.

5D(BW)

5E(BW) 5K(BW)

5L(BW)

5P(BW)

5QC(2B) 5R(BW)

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