GENERAL ELECTRIC

68A999797
CONT ON SHEET 2 SH NO. 1

REV NO.

68A999797
CONT ON SHEET 2 SH NO. 1

TITLE
TEST INSTRUCTIONS
PULSE AMPLIFIER TRANSFORMER

FIRST MADE FOR IC4215PB

REVISIONS

1. PRODUCTION TESTING

GENERAL - THESE TEST DESCRIBE THE METHOD OF EVALUATING PULSE AMPLIFIER TRANSFORMER IC4215PB 11, 12, 13 AND 16

GROUP	APPLICATION	
11	SILCOMATIC PLUS	700v
12	SILCOMATIC PLUS	500v
13	SILCOMATIC PLUS (ANTIPARALLEL)	500v
16	MERCURY ARC CONVERSION	

TEST A - PULSE FORMATION

1. EQUIPMENT
POWER SOURCE +28VDC 100MA
(2) 33 OHM 2W 5% RESISTOR
MULTIMETER
OSCILLOSCOPE
SIGNAL SOURCE - FIGURE 1

Important!
Check output pulses at terminals X1 to X2 + X3 to X4 at units terminals not the cards terminals.

2. EVALUATION
A) CONNECT TERMINALS
33 OHMS X1 TO X2
33 OHMS X3 TO X4
25VDC +28v TO COMMON
SIG. SOURCE SIGNAL TO COMMON

B) TURN ON THE POWER AND SIGNAL SOURCES.

C) CONNECT THE SCOPE X1 TO X2 AND VERIFY THAT THE SIGNAL OBSERVED SATISFIES THE REQUIREMENTS SHOWN IN FIGURE 2 AND FIGURE 3.

D) CONNECT THE SCOPE FROM X3 TO X4 AND VERIFY THAT THE SIGNAL OBSERVED SATISFIES THE REQUIREMENTS SHOWN IN FIGURES 2 AND FIGURE 3.

E) REMOVE THE 33 OHM RESISTORS.

F) CONNECT THE SCOPE FROM X1 TO X2 AND VERIFY THAT THE TRAILING EDGE OF THE SECOND PULSE IS 10.0 VOLTS ± 1.0 VOLTS. NOTE - ALL OTHER VOLTAGE LEVELS ARE APPROXIMATE AND NOT MEASURED.

G) CONNECT THE SCOPE FROM X3 TO X4 AND VERIFY THAT THE TRAILING EDGE OF THE SECOND PULSE IS 10.0 VOLTS ± 1.0 VOLTS. NOTE - ALL OTHER VOLTAGE LEVELS ARE APPROXIMATE AND NOT MEASURED.

TEST B - LIGHT RESISTORS

1. EQUIPMENT
MULTIMETER

2.

MEASURE	G11,12,13	G16
LT1 TO X2	120K ± 5%	50K ± 5%
LT2 TO X4	120K ± 5%	150K ± 5%
LT3 TO LT2	240K ± 10%	300K ± 10%
LT4 TO NEG	120K ± 5%	150K ± 5%

DL12
4FD1
PRINTS TO

MADE BY A. J. DeLEO
ISSUED 11-26-75
APPROVALS
DRIVE SYSTEMS DIV OR DEPT.
SALEM, VIRGINIA LOCATION

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CONT ON SHEET FL. SH NO. 2	FIRST MADE FOR IC4215PB

REVISIONS

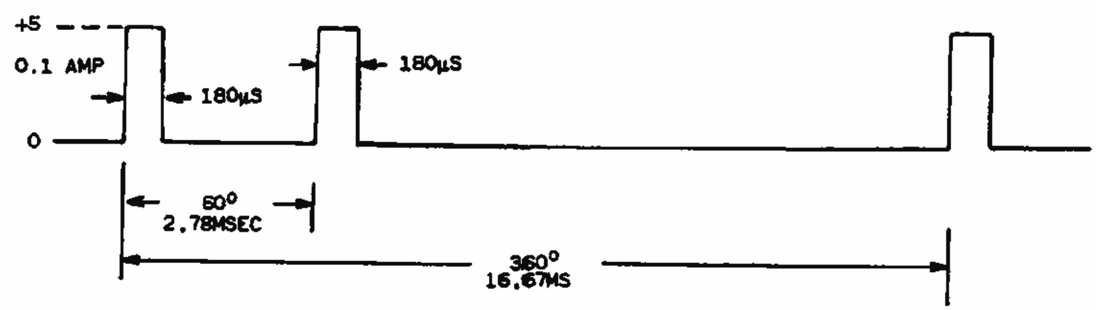

FIGURE 1

OUTPUT CHARACTERISTIC - 33 OHM LOAD
MAGNITUDE - DURATION

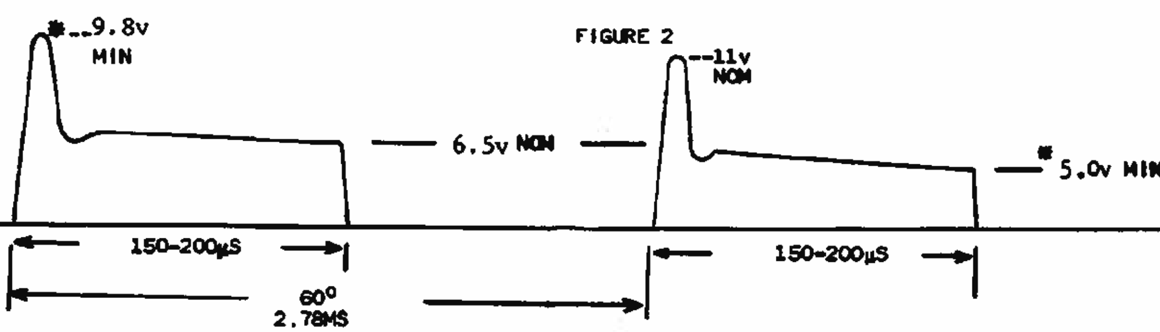

FIGURE 2

NOTE: * THE ONLY VOLTAGE RESTRICTION IS ON THE TRAILING EDGE OF THE SECOND PULSE AND LEADING EDGE OF THE FIRST. OTHER VALUES ARE FOR REFERENCE ONLY.

RISETIME

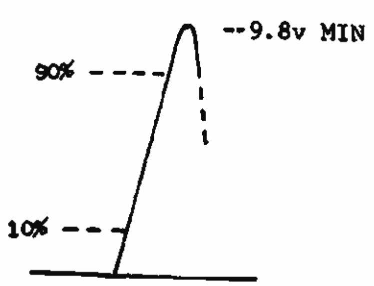

FIGURE 3

$T_{RISE} \leq$ 0.6µS 10% - 90%

DL12
4ED1

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