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C 1006786

REVISIONS 00467 2-27-63			
SYM	DESCRIPTION	DATE	APPROVAL
-	SEE PROCUREMENT NOTE NO. 3		
A	REVISED PER TDRR 00513	6/3/63	WK
B	REVISED AND UPGRADED TO CLASS A RELEASE PER TDRR 03137	12SEP63	WK
C	REVISED PER TDRR 18624	5/8/63	WK

NOTES:

1. REQUIREMENTS:

A. ELECTRICAL:

(1) CURRENT PULSE (Im):

(a) AT 25°C: 590 MILLIAMPERES ± 6 MILLIAMPERES.

(b) AT 0°C: 635 MILLIAMPERES ± 6 MILLIAMPERES.

(c) AT 70°C: 510 MILLIAMPERES ± 5 MILLIAMPERES.

(2) PARTIAL CURRENT PULSE (Id):

(a) AT 25°C: 345 MILLIAMPERES ± 4 MILLIAMPERES.

(b) AT 0°C: 360 MILLIAMPERES ± 4 MILLIAMPERES.

(c) AT 70°C: 290 MILLIAMPERES ± 3 MILLIAMPERES.

(3) PULSE REPETITION RATE OF Im AND Id: NOT CRITICAL.

(4) NUMBER OF PARTIAL CURRENT PULSES: 5 OR MORE.

(5) RISE TIME (Tr):

(a) AT 25°C, 0°C AND 70°C: 0.4 MICROSECOND ± .02 MICROSECONDS.

(6) PULSE DURATION (Td):

(a) AT 25°C, 0°C AND 70°C: 3.0 MICROSECONDS (FROM 50% ON THE RISE TO 50% ON THE FALL OF THE PEAK AMPLITUDE OF THE CURRENT PULSE). ± .15 MICROSECONDS.

(7) SELECTED UNDISTURBED ONE VOLTAGE OUTPUT (uV_1):

(a) AT 25°C: EQUAL TO OR GREATER THAN 60 MILLIVOLTS.

(b) AT 0°C: EQUAL TO OR GREATER THAN 75 MILLIVOLTS.

(c) AT 70°C: EQUAL TO OR GREATER THAN 40 MILLIVOLTS.

(8) SELECTED DISTURBED ZERO VOLTAGE OUTPUT (dVz):

(a) AT 25°C, 0°C AND 70°C: LESS THAN OR EQUAL TO 10 MILLIVOLTS.

(9) PEAKING TIME (Tp):

(a) AT 25°C, 0°C AND 70°C: 0.68 PLUS OR MINUS .05 MICROSECOND.

(10) SWITCHING TIME (Ts)

(a) AT 25°C: LESS THAN OR EQUAL TO 1.45 MICROSECONDS.

(b) AT 0°C: LESS THAN OR EQUAL TO 1.25 MICROSECONDS.

(c) AT 70°C: LESS THAN OR EQUAL TO 1.75 MICROSECONDS.

B. QUALITY ASSURANCE PROVISIONS:

(1) SUPPLIER SHALL CONFORM TO THE REQUIREMENTS OF ND 1015404, CLASS 3.

(2) ACCEPTANCE INSPECTION:

(a) CORES SHALL BE TESTED FOR ELECTRICAL REQUIREMENTS 100 PERCENT AT 25°C. A SAMPLE SHALL BE TESTED FOR ELECTRICAL REQUIREMENTS AT 0°C AND 70°C. IN ACCORDANCE WITH MIL-STD-105, .25 PRECENT AQL.

2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

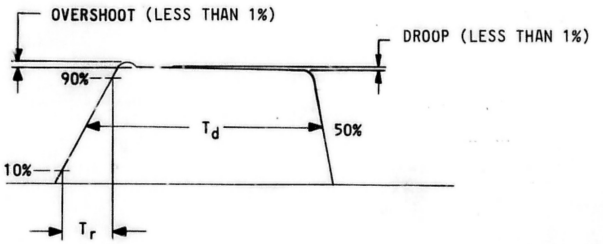


FIG. 1 CURRENT PULSE

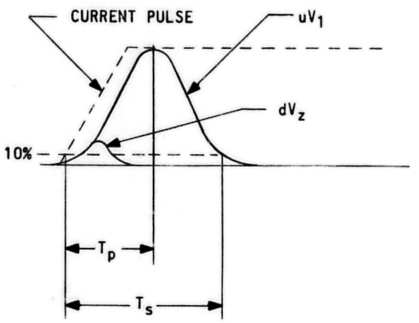
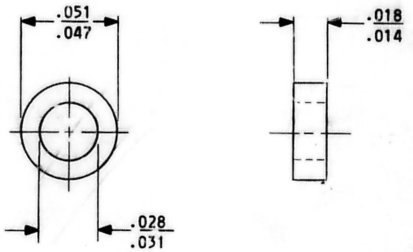


FIG. 2 VOLTAGE RESPONSE OF CORE



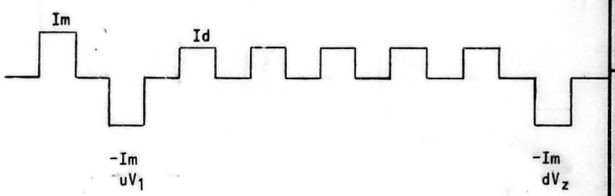


FIG. 3 CURRENT PULSE SEQUENCE

MASTER

PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1002034 FOR THIS DRAWING.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
		LIST OF MATERIALS	

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH

MIT INSTRUMENTATION LAB, CAMBRIDGE, MASS.
DWG. NO. CONTRACT

DRAWN R. WHEELER DATE 26DEC62
CHECKED R.M. SLEEPER 11JAN63
APPROVAL [signature] 2-27-63
APPROVAL [signature] 10Apr63
NASA APPROVAL [signature] 2-27-63
MIT APPROVAL [signature] 27FEB63

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MAGNETIC CORE, FERRITE
SPECIFICATION CONTROL DRAWING

CODE IDENT. NO. 80230 | SIZE C | NASA DRAWING NO. 1006786
SCALE NONE | WT | SHEET 1 OF 1