EQUIP. TYPE ~~P3904/UGC~~ EXP. NO.

~~COC 678 075500~~

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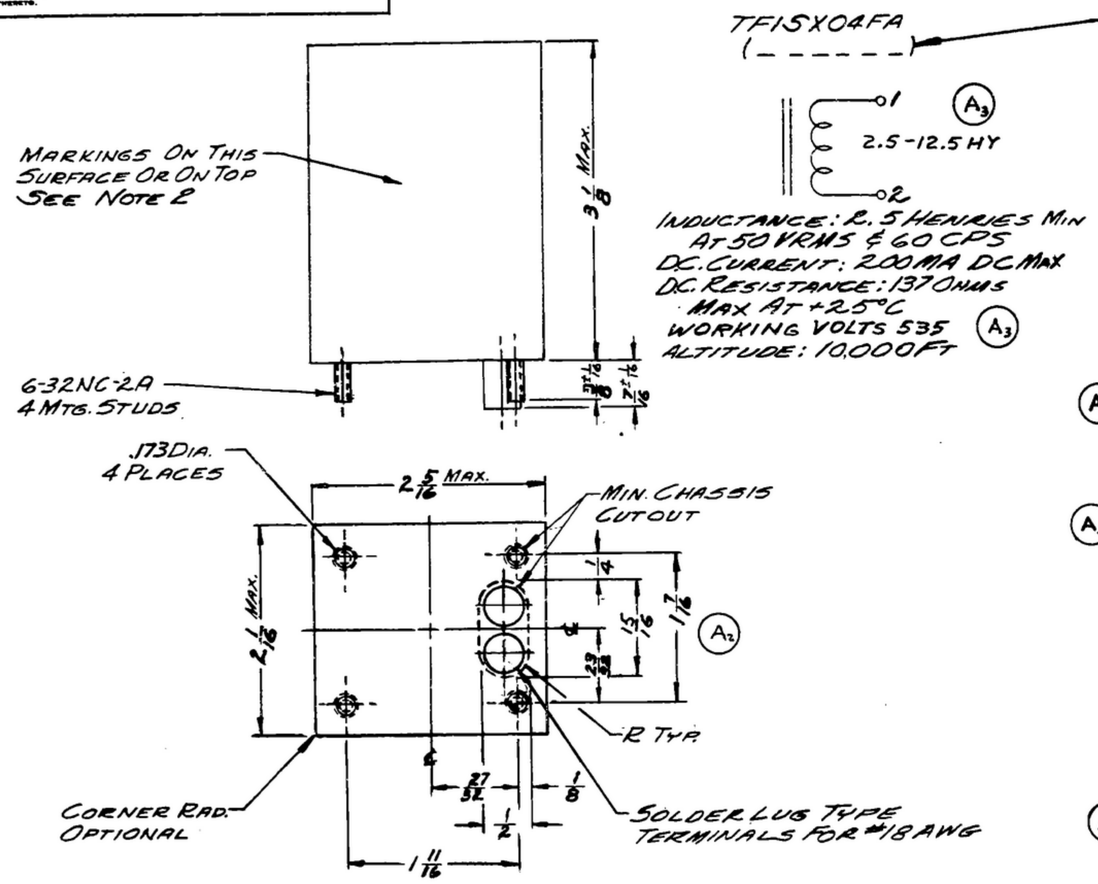
*FOR INFORMATION ONLY. CONTRACTOR MAY AT HIS OPTION DEVIATE FROM THESE PROCESS DETAILS.

~~X SWE APPROVAL~~

~~SYM~~	~~PR10042-13~~

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
A7	A1 SWE TYPE 24N205207 ETC, WAS NO. 21609 AS SUPPLIED BY CHICAGO STD. TRANSFORMER CORP. ETC A2 .173 WAS .171 & 15/16 WAS 1 A3 WORKING VOLTS 535 WAS HI POT TEST 1500 VRMS, & 2.5-12.5 HY WAS 2-12 HY A4 TYPE TF1SX04FA WAS CLASS B, GRADE 1 A5 WORKING VOLTAGE 535V WAS TEST VOLTAGE 1500 VOLTS A6 DELETED "LIFE EXPECTANCY" & "SEAL" TEST "REQUIREMENTS FROM NOTES A7 P213E WAS P213P	20 NOV 59	42428-PC-59-A1-S1 REV'D PMC



NOTES:

1. PART MAY BE SWE TYPE 24N205207 AS SUPPLIED BY STEWARD WARNER ELECTRONICS, CHICAGO, ILL, OR EQUAL, PROVIDING IT MEETS THE FOLLOWING REQUIREMENTS AND DIMENSIONS SHOWN.
2. AFFIX IN A THOROUGHLY LEGIBEE MANNER ALL CHARACTERS AND MARKINGS IN VERTICAL GOTHIC 3/32 IN. HIGH IN ACCORDANCE WITH AND TO MEET THE TEST REQUIREMENTS OF SPEC MIL-M-13231.

A4 DESCRIPTION: FILTER REACTOR IN ACCORDANCE WITH MILITARY SPECIFICATION MIL-T-27, TYPE TF1SX04FA

INDUCTANCE: 2.5 HENRIES MINIMUM MEASURED AT 50 VOLTS RMS, 60 CPS, AND WITH 200 MA DC FLOWING THROUGH THE REACTOR.
12.5 HENRIES MINIMUM MEASURED AT 50 VOLTS RMS, 60 CPS, AND WITH 20 MA DC FLOWING THROUGH THE REACTOR.

RATED CURRENT: 200 MA DC.

D.C. RESISTANCE: 137 OHMS MAXIMUM AT +25°C.

A5 WORKING VOLTAGE: 535 V

RIPPLE FREQUENCY: 100 TO 120 CPS.

RIPPLE VOLTAGE: 100 VOLTS RMS.

AMBIENT TEMPERATURE RANGE: -55°C TO +85°C.

TEMPERATURE RISE: SHALL NOT EXCEED 40°C ABOVE AN OPERATING AMBIENT OF +85°C WHEN OPERATED AT RATED LOAD AND SPECIFIED DUTY CYCLE FOR A SUFFICIENT LENGTH OF TIME TO REACH NORMAL OPERATING TEMPERATURES.

DUTY CYCLE: CONTINUOUS.

ALTITUDE: SEA LEVEL TO 10,000 FEET OPERATING.

CASE: HERMETICALLY SEALED, MIL-TYPE FA CASE, STUD MOUNTED, WITH TERMINALS EXTENDING FROM MOUNTING SURFACE.

TERMINALS: TERMINALS SHALL BE LOCATED IN THE RELATIVE POSITIONS INDICATED. TERMINAL DESIGN IS OPTIONAL (PROVIDING TERMINAL LENGTH CONFORMS TO SPECIFIED LENGTH DIMENSIONS) BUT SHALL HAVE PRIOR MIL-T-27 PROTOTYPE APPROVAL AND SHALL BE APPROVED BY THE PRIME CONTRACTOR BEFORE PROCEEDING WITH PRODUCTION QUANTITIES. THE TERMINAL DESIGN SHALL BE SUCH THAT THE TERMINALS ARE CAPABLE OF WITHSTANDING THE TERMINAL STRENGTH TESTS OF SPEC MIL-T-27 WHEN USING A TEST FORCE OF 5 POUNDS.

A6 *SAMPLE APPROVAL: SAMPLE APPROVAL MUST BE OBTAINED FROM THE PRIME CONTRACTOR BEFORE PROCEEDING WITH PRODUCTION. ALL THE ELECTRICAL AND MECHANICAL QUALIFICATION REQUIREMENTS SPECIFIED IN MIL-T-27 WILL BE CHECKED BEFORE GRANTING SAMPLE APPROVAL

A7 FINISH: P213E PER SPEC MIL-F-14072.

~~* WHEN PART NO. APPEARS AS 559-0369 9-3, MILITARY SOURCE INSPECTION IS REQ.~~

~~COLLINS PART NO.~~	~~ITEM~~	~~REQD~~	~~PART NO.~~	~~DESCRIPTION~~	~~MATL~~	~~MATL SPEC~~	

LIST OF MATERIAL ~~SWE PART NO. 24N205207~~

~~559-0369-004~~	1	SMD-248801	SC-DL-248773
~~COLLINS NO.~~	~~QTY~~	NEXT ASSY	USED ON

APPLICATION

DRAWN	CHECKED	APPROVED
DC Wright	BG	

UNLESS OTHERWISE SPECIFIED:
DECIMAL DIMENSIONS INCLUDING HOLE SIZES MAY VARY ±.005
FRACTIONAL DIMENSIONS INCLUDING HOLE SIZES MAY VARY ±1/64
MACHINED ANGLES MAY VARY ±.5°
SHEARED ANGLES MAY VARY ±.25°
BROKEN ANGLES MAY VARY ±1.°
ECCENTRICITY BETWEEN ANY DIAMETERS ON THE SAME CENTERLINE SHALL NOT EXCEED .010 TOTAL INDICATOR READING.
ALL DIMENSIONS ARE FINISH DIMENSIONS INCLUDING APPLIED FINISH AND ARE GIVEN IN INCHES.

~~COLLINS RADIO CO. CEDAR RAPIDS, IOWA~~

14214-PH-51-93

SIGNAL CORPS
REVIEWED PME
APPROVED HLY PME
DATE 5 MAR 58

REACTOR-FILTER

SCALE 1/1

DEPARTMENT OF THE ARMY
SIGNAL CORPS ENGINEERING LABORATORIES
FORT MONMOUTH NEW JERSEY

SM-C-283220

PD-794—874-2071-11—A4706—298567

WHEN REFERRING TO THIS DRAWING STATE DRAWING NO., APPLICABLE ISSUE SYMBOL, IF ANY, AND DATE