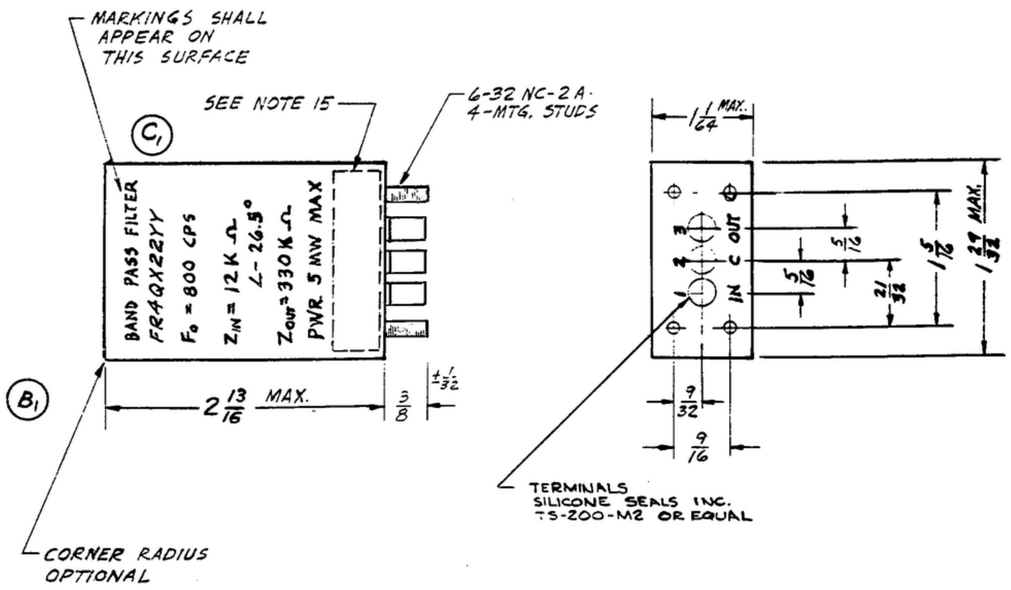
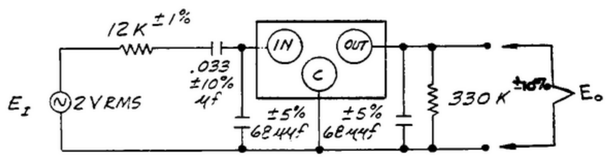
NOTE: *FOR INFORMATION ONLY. CONTRACTOR MAY AT HIS OPTION DEVIATE FROM THESE PROCESS DETAILS





TEST CIRCUIT
FIG. I

SYM	REVISIONS DESCRIPTION	DATE	APPROVAL
	~~S.W.E APPROVAL~~		
	~~SYM PRIOR TO 14~~		
A1	A1-REVISED & REDRAWN;	3 DEC 59	42428-PC-59 A1-61 REV'D.
B	CA 85X20 B (1) DIM. 2 13/16 WAS 2 3/4	3-30-61	42428-PC-59 REV'D. PME
C2	(1) TYPE NO. WAS FR11A22YY (2) NOTE 2 REV	22 SEP 65	PH RP EDB

C2 NOTES:

1. PART MAY BE TYPE 24N205216 AS SUPPLIED BY STEWART-WARNER ELECTRONICS, CHICAGO, ILL. OR EQUAL, PROVIDING IT MEETS THE REQUIREMENTS AND DIMENSIONS SHOWN.
2. BAND PASS FILTER SHALL MEET THE QUALIFICATION REQUIREMENTS OF MIL-F-18327 FOR TYPE FR40X22YY EXCEPT WHERE AMENDED BY NOTES.
3. CENTER FREQUENCY: CENTER FREQUENCY SHALL BE 800 CPS ± 2% WHEN CALCULATED AS GEOMETRIC MEAN OF UPPER AND LOWER 6 DB FREQUENCIES.
4. BANDWIDTH: AT 6 DB SHALL NOT BE LESS THAN 160 CPS OVER THE TEMPERATURE RANGE. BANDWIDTH AT 30 DB SHALL NOT BE MORE THAN 550 CPS AT 25°C AND SHALL NOT EXCEED 600 CPS AT TEMPERATURE EXTREMES.
5. INSERTION LOSS: THE VOLTAGE RATIO E_o/E_i IN THE TEST CIRCUIT OF FIGURE 1 SHALL BE -5 DB ± 1 DB AT CENTER FREQUENCY AND SHALL NOT VARY MORE THAN ± 1.5 DB FROM THE MEASURED VALUE AT 25°C, CENTER FREQUENCY OVER THE TEMPERATURE -40°C TO +85°C.
6. AMBIENT TEMPERATURE RANGE: -40°C TO +85°C.
7. TERMINATING IMPEDANCES AND VECTOR ANGLE:
   A. INPUT IMPEDANCE, 12000 OHMS VECTOR ANGLE -26.5°
   B. OUTPUT IMPEDANCE 330K OHMS
   C. IMPEDANCES ARE AS SPECIFIED WITH FILTER IN CIRCUIT OF FIGURE 1.
8. OPERATING VOLTAGE 2VRMS.
9. INTERNAL CAPACITORS: ALL INTERNAL CAPACITORS SHALL MEET THE ELECTRICAL REQUIREMENTS OF SPECIFICATION MIL-C-5 OR MIL-C-25 MODIFIED TO PERMIT THE USE OF CAPACITORS IN OPTIONAL CASE SIZES AND CASINGS. ALL CAPACITORS SHALL HAVE AT MINIMUM OF 100 WVDC RATING. CAPACITORS ARE NOT REQUIRED TO BE QPL NOR IS GOVERNMENT SOURCE INSPECTION REQUIRED. HOWEVER, THE ELECTRICAL CHARACTERISTICS OF ALL CAPACITORS USED IN THIS ASSEMBLY SHALL BE CAPABLE OF MEETING THE MINIMUM REQUIREMENTS OF THE REFERENCED SPECIFICATIONS AND MAY BE TESTED TO MEET THESE REQUIREMENTS AT THE OPTION OF THE CONTRACTOR.
10. TERMINALS: TERMINAL DESIGN IS OPTIONAL, PROVIDING TERMINAL LENGTH CONFORMS TO SPECIFIED LENGTH DIMENSIONS AND SHALL BE APPROVED BY THE PRIME CONTRACTOR BEFORE PROCEEDING WITH PRODUCTIONS QUANTITIES.
11. LIFE: BAND PASS FILTERS SHALL HAVE A LIFE EXPECTANCY OF 1000 HOURS UNDER MINIMUM OPERATING CONDITIONS.
12. QUALIFICATION LABORATORY TESTS: PARA. 4.5 OF MIL-F-18327 DOES NOT APPLY.
13. COMMON TERMINAL: THE COMMON TERMINAL OF THE CIRCUIT CONFIGURATION MAY OR MAY NOT BE GROUNDED TO THE CASE.
14. FINISH: P21SE PER MIL-F-14072
15. MARKING: MARKING SHALL BE IN ACCORDANCE WITH MIL-M-13231 GROUP II. UNITS SHALL BE MARKED WHERE INDICATED WITH THE PRIME MANUFACTURER'S NAME, REGISTERED TRADEMARK OR CODE SYMBOL TOGETHER WITH HIS PART NUMBER OR OTHER DESIGNATION.

REQD	PART NO.	DESCRIPTION	MATL	MATL SPEC	NOTES

LIST OF MATERIAL ~~SWE PART NO. 24N205216~~

				UNLESS OTHERWISE SPECIFIED	~~COLLINS RADIO CO CEDAR RAPIDS, IOWA~~ 14214-PH-51-93	FILTER - BAND, PASS	DEPARTMENT OF THE ARMY SIGNAL CORPS ENGINEERING LABORATORIES FORT MONMOUTH NEW JERSEY
				DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 1°	SIGNAL CORPS		
				DRAWN BY D.C.WRIGHT	REVIEWED PME		
		SM-D-248801	SC-DL-248775	CHECKED BY BG	APPROVED HLY PME		SM-C-283218
NEXT ASSY	USED ON	NEXT ASSY	USED ON	CHIEF DRAFTS			
SWE APPLICATION		APPLICATION		ENG APPROVAL	DATE 6 MAR 58	SCALE 1/1	

SWE-2 C. S. CO., NO. 337

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