

### ROUTING AND RECORD SHEET

**INSTRUCTIONS:** Officer designations should be used in the "TO" column. Under each comment a line should be drawn across sheet and each comment numbered to correspond with the number in the "TO" column. Each officer should initial (check mark insufficient) before further routing. This Routing and Record Sheet should be returned to Registry.

<b>FROM:</b>  <div style="font-size: 1.5em; font-family: cursive;">OC-SP/EA</div>	TELEPHONE NO.	<div style="font-size: 1.5em; font-family: cursive;">SPM-5-192</div>
		DATE <div style="font-size: 1.5em; font-family: cursive;">1 December 1955</div>

TO	ROOM NO.	DATE		OFFICER'S INITIALS	TELEPHONE	COMMENTS
		REC'D	FWD'D			
1. OC-SP	1501 I	12/5	12/8	her		
2.						
3. OC-E-7		DEC 13 1955		RG		
4. R & D		12/14		<del>SPM</del>		<div style="font-size: 1.5em; font-family: cursive; text-decoration: underline;">ACTION</div> R & D. Ple show this to BBB when he returns. al
5.						
6. <del>OC-E-7</del>						
7. Lab		12-16	12-16	MLH		25X1 25X1
		12/23	12/23	NCP		7-8 [ ] advises that the model may be available next week. Also, that the dimensions of the basic unit without cover or case is 1 3/16" x 1" x 3/16" (Not including batt). Also the unit has 100Ω output impedance which is produced by a transistor isolation stage. The gain of this unit is 25db instead of 75 db., also. MLH
10.						
11.						
12.						
13.						
14.						
15.						

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TO : Chief, Communications Engineering Division      DATE: SPM-5-192  
1 December 1955

FROM : Chief, Communications Supplemental Programs Division

SUBJECT:  Crystal Video Receivers

REF : OC-E Memo X55 2274

25X1

1. The unit submitted with the reference appears to be most promising, however, necessitating additional developments to realize an operational item. It is rather difficult to evaluate the E/VA-3X under field conditions as the output appears to be best suited to a higher impedance load. Initial checks with available TELEX headphones appear to indicate a considerably lower gain than the sensitivity table attached to the reference. This is felt due to the low impedance of TELEX sets (300 ohms).

2. This division has requirements for twenty-five transistorized crystal video receivers. It is intended that at least one unit be employed as a productive prototype and that the others be dispatched to  From your work with the subject amplifier and experiences with the commercially available  it is now possible to describe the amplifier desired.

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A. The unit should possess approximately the same physical and electrical characteristics as the  i.e., 75 DB gain at one megacycle band pass.

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B. The unit should have incorporated a pulse stretcher and impedance matching device for use with either TELEX type headsets or Minifon wire and Edwards tape recorders. Suggested is the incorporation of one stage of audio following the pulse stretcher.

C. Be so formed as to allow direct mounting onto the present horn antennas and direct attaching to the present dipole-discone series.

D. Have a minimum battery life in excess of one hundred hours.

3. Because the operational requirements for an initial quantity of such an amplifier are pressing, it is recommended that you consider the relative merits of new fabrication versus the recasing of, and adding additional components to, the

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4. While the quantity of amplifiers requested by this memoranda is limited to twenty-five, you should note this division anticipates the need

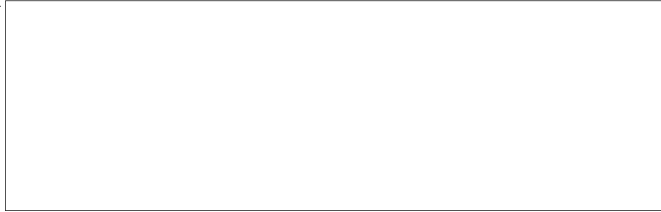
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 AUTH: HR 70-2  
 DATE: 2 DEC 1980      REVIEWER: **064540**

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for several hundred amplifiers to be satisfied by external contract based on your prototype. Further, the Office of Communications is presently receiving additional requirements which indicate that we must accumulate a variety of agent collection devices to afford the DD/P area capability to meet their targets of opportunity. Therefore, this request should be considered as one of a forthcoming series, the others to be handled by separate correspondence.



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Attachments:

As above

Distribution:

Orig & 1

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