

PREFERRED CLASSIFIED VACUUM TUBES

MARCH 1, 1943

TO THOSE CONCERNED WITH THE DESIGN AND MANUFACTURE OF
ARMY OR NAVY EQUIPMENT UTILIZING CLASSIFIED VACUUM TUBES:

1. The following Army-Navy Preferred List of Classified Vacuum Tubes sets up a group of classified tubes selected jointly by the Signal Corps and the Bureau of Ships. The purpose of this list is to effect an eventual reduction in the variety of tubes used in Service equipment.
2. IT IS MANDATORY THAT ALL CLASSIFIED TUBES TO BE USED IN ALL FUTURE DESIGNS OF NEW EQUIPMENTS UNDER THE JURISDICTION OF THE SIGNAL CORPS LABORATORIES OR THE RADIO AND SOUND BRANCH OF THE BUREAU OF SHIPS BE CHOSEN FROM THIS LIST. EXCEPTIONS TO THIS RULE ARE HEREINAFTER NOTED.
3. The term "new equipments", as mentioned in Paragraph 2 above, is taken to include:
 - a. Equipments basically new in electrical design, with no similar prototypes.
 - b. Equipments having a similar prototype but completely redesigned as to electrical characteristics.
 - c. New test equipment for operational field use.
4. The term "new equipments", as mentioned in Paragraph 2 above, does not include:
 - a. Equipments either basically new or redesigned, that are likely to be manufactured in very small quantity, such as laboratory measuring instruments.
 - b. Equipments that are solely mechanical redesigns of existing prototypes.
 - c. Equipments that are reorders without change of existing models.
 - d. Equipments in the design stage before the effective date of adoption of this Preferred List.

NOTE: The foregoing statements in Paragraphs 3 and 4 above are explanatory in nature and are not intended to be all-inclusive.
5. In the event that it is believed that a tube other than one of those included in this Preferred List should be used in the design of new equipments for either the Signal Corps or Navy, specific approval of the Service concerned must be obtained. Such approval, when Signal Corps equipment is concerned, is to be requested from the Signal Corps Laboratory concerned with such equipment; the said Laboratory will then make known its recommendations in the matter to the Office of the Chief Signal Officer where the final decision will be made and returned to the laboratory for transmittal to the party requesting the exception. When Navy equipment is concerned, the request for exception shall be addressed to the Bureau of Ships, Navy Department.
6. The publication of this list is in no way intended to hamper or restrict development work in the field of vacuum tubes or vacuum tube applications.
7. This list is to take effect immediately.

ARMY-NAVY PREFERRED LIST OF CLASSIFIED VACUUM TUBES

| | | | |
|----------------|--------|----------------------------------|-------------------------|
| 1N21 | 5R4GY* | 371A* | 708A |
| 2AF1* | 7BP7 | 434 | 714AY |
| 2C26* | 9EP1* | 446A | 715A |
| 2J21 THRU 2J34 | 9EP7 | 447 | 718 AY, BY, CY, DY & EY |
| 3BP1* | 9GP7 | 471A | 720 AY, BY, CY, DY & EY |
| 3B24* | 12DP7 | 530A (VT122) | 721A |
| 3DP1 | 15E | 532 | 723A |
| 3FP7 | 53A | 532A | 724A |
| 4C27 (CV92) | 73R* | 700 A, B, C, & D | 726A |
| 5CP1* | VT127A | 705A* | 729A |
| 5CP7 | 304TH* | 706 AY, BY, CY, DY, EY, FY, & GY | 8014A |
| 5FP7 | 327A | 707B | 8020* |

* Unclassified Tube; also listed on the unclassified Army-Navy Preferred List of Vacuum Tubes.

RESTRICTED

ARMY-NAVY VACUUM TUBE SECURITY CLASSIFICATION

APRIL 22, 1943

NOTE: This list supersedes the Signal Corps list of December 10, 1942, and the Radio and Sound Branch, Navy Department List of November 21, 1942, covering Security Classification of Vacuum Tubes.

To Those Concerned with the Use and Dissemination of Information Concerning Classified Vacuum Tubes:

1. The following list sets forth certain vacuum tubes used by the Radio Division, Bureau of Ships, Navy Department, and the Signal Corps, Army Service Forces, together with the security classification of same. The purpose of this list is to insure uniformity in the security classification of vacuum tubes and vacuum tube information used by the aforementioned Services.

2. THE OMISSION OF A TUBE FROM THIS LIST DOES NOT NECESSARILY INDICATE THAT THE TUBE IS UNCLASSIFIED.

3. Technical data and information concerning tubes under development, or already developed but not in production, which would be of great advantage to a foreign nation by virtue of:

- a. Disclosure of wavelengths or operational frequency, or
- b. Disclosure of novel design and constructional features, or
- c. Disclosure as to application,

MUST BE CLASSIFIED AS SECRET.

4. a. All vacuum tube information which directly or indirectly reveals specific pulse modulation ratings must be classified as CONFIDENTIAL.

b. All vacuum tube information which directly or indirectly reveals specific operational frequencies in the ultra-high frequency spectrum must be classified as SECRET. Photographs or drawings of frequency-determining elements of tubes are included in this category.

5. Tubes for which technical data have been published and generally distributed prior to this date will not be classified in the future unless reasons of National Security necessitate such classification; in which event the recipients of this list will be notified.

6. The type number of a classified tube may be listed in an unclassified document when such listing does not disclose either wavelengths, basic principles, or technical details of the tube.

The following tubes are classified as "CONFIDENTIAL":

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|-------------------|----------------|-----------|---------------|----------------|----------------|--------------|
| K-O Series | 3CP1 | REL-7 | HY-145ZT | WL-442 | WL-532, A | 724A |
| J-1 Series | 3CP1-S1 | 8B | VT-158 | WL-443 Series | WL-538 | 725 Series |
| 1B23(729A) | 3DP1 | 9EP7 | QF-196 | 446, A, B | GL-541(ZG-541) | 726A, B, C |
| 1N21 | 3DP1-S1 | 9FP1 | QF-197 | 447 | 700 Series | 728 Series |
| 1N22 | 3FP7 | 9GP7 | QF-200 Series | ZP-449 | 701A | 729A |
| 1P24(936, ZJ-516) | 3HP7 | 9HP7 | QF-202 | GL-455 | 702A | 730AY |
| D-2 Series | GA-4 | 9MP9 | QF-206 | 464, A | 706 Series | SA780 |
| GY-2 | 4C27(CV92) | 12DP7 | QF-213 | GL-471, A | 707A, B | SA781 Series |
| 2B24(QF-197) | GA-5 | 12HP7 | QF-214 | GL-484 | 708A | SA782 Series |
| 2C27(QF-200C) | GA-5A | 15E | QF-215 | GL-485 | 709A | 933 |
| 2C28(SA-780) | 5CP7 | REL-21 | HK-227 | GL-486 | 710A | 936 |
| 2D29(SA-782B) | 5D21 | 53A | 227A | GL-488 | 714 Series | 1636 |
| 2E27(QF-206) | 5EP1 | CU58 | 327A | ZG-489 | 715A, B | 1860 |
| 2E28(HY-145ZT) | 5EP7 | VR78 | 417 | ZJ-516 | 718 Series | 1960 |
| 2E29(SA-781A) | 5FP7 | CV92 | 417A | WL-530 | 719A | WX-3074 |
| 2J21 Thru 2J34 | 5J21 Thru 5J25 | 100R | 419, A | 530A | 720 Series | 8011 |
| 2JB51 | REL-5 | 100TS | 421, AA | ZG-530 | 721A | 8014A |
| 2KB72 | 7BP7 | VT-127, A | 434, A | GL-531(ZG-531) | 722A | 8029 |
| 3BX | K-7 Series | HY-145YT | WL-441 Series | ZG-532 | 723A | 8026 |

UNCLASSIFIED TUBES PREVIOUSLY CONSIDERED CLASSIFIED

| | | | | | | |
|------|------|------------|-------|-------|---------|-------|
| C1B | 5CP1 | TS-70 | 304TH | 451 | 717A | 1630 |
| 2E22 | 5CP4 | 72R(RKR72) | 313CC | HY615 | 727A | 7193 |
| C5B | 5GP1 | 73R(RKR73) | 316A | 703A | 732A | 8012 |
| 3B24 | 6C21 | 100TH | 326A | 704A | 829A | 8013A |
| 3FP1 | 9EP1 | HY114B | 371A | 705A | 832 | 8016 |
| 5EP1 | 15R | RX233 | 393A | 713A | 953B | 8020 |
| 5BP4 | EF50 | 274B | 450TH | 716A | 1000UHF | 8021 |

Chief of the Bureau of Ships,
Navy Department.

Office of the Chief Signal Officer,
Headquarters, Army Service Forces,
War Department.

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