

In the Application Guide on the following pages, RCA receiving tubes are classified in two ways: (a) by function, and (b) by structure (diode, triode, etc.). The functional classification covers 42 principal types of application.

Tube types are grouped by structure under each classification; they are also keyed to indicate miniature, octal, nuvistor, duodecar, and novar types.

Triodes are designated as *low*, *medium*, or *high-mu* types on the following basis: *low*, less than 10; *medium*, 10 or more, but less than 50; *high*, 50 or more. Where applicable, tubes are designated as *sharp*, *semiremote*, or *remote-cutoff* on the basis of the ratio, in per cent, of the negative control-grid voltage to the screen-grid voltage (or, for triodes, the plate voltage) for cut-off, as given in the characteristics or typical operation values. These terms are defined as follows: *sharp*, less than 10 per cent; *semiremote*, 10 or more, but less than 20 per cent, *remote*, 20 per cent or more.

APPLICATIONS

- | | |
|--|---|
| 1. Audio-Frequency Amplifiers | 22. Horizontal-Deflection Circuits |
| 2. Automatic Gain Control Circuits (AGC and AVC) | 23. Intermediate-Frequency Amplifiers |
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| 4. Blankers | 25. Limiters |
| 5. Burst Amplifiers | 26. Mixers—RF |
| 6. Cathode-Drive RF Amplifiers (Grounded-Grid) | 27. Mixer-Oscillators—RF |
| 7. Chroma Amplifiers | 28. Multivibrators |
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| 10. Complex-Wave Generators | 31. Phase Inverters |
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| 12. Dampers | 33. Radio-Frequency Amplifiers |
| 13. Demodulators (Color TV) | 34. Reactance Circuits |
| 14. Detectors | 35. Rectifiers |
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| 16. Discriminators | 37. Sync Amplifiers |
| 17. Frequency Dividers | 38. Sync Clippers |
| 18. FM Detectors | 39. Sync Separators |
| 19. Gated Noise, AGC, and Sync Amplifiers | 40. Tuning Indicators |
| 20. Grounded-Grid RF Amplifiers | 41. Vertical-Deflection Circuits (Oscillator and Amplifier) |
| 21. Harmonic Generators | 42. Video Amplifiers |

3. BANDPASS AMPLIFIER (COLOR TV)

Medium-Mu Triode—Sharp-Cutoff Pentode

- 5GH8A • 6HL8 • 6MQ8
- 6GH8A

High-Mu Triode—Sharp-Cutoff Pentode

- 6AW8A • 6KV8 • 8AW8A
- 6KT8 • 6LF8 • 11KV8

4. BLANKERS

Medium-Mu Triode—Sharp-Cutoff Pentode

- 5GH8A • 6GH8A • 6MQ8

Medium-Mu Twin Triode

- 6FQ7/6CG7 • 8FQ7/8CG7 • 12BH7A
- 6GU7 • 8GU7

Medium-Mu Triode—Semiremote-Cutoff Pentode

- 6LM8

High-Mu Triode—Sharp-Cutoff Pentode

- 6KT8

5. BURST AMPLIFIERS

Beam-Deflection Tube

- 6JH8

Medium-Mu Triode—Sharp-Cutoff Pentode

- 5EA8 • 6EA8 • 19EA8
- 5GH8A • 6GH8A

Medium-Mu Triode—Semiremote-Cutoff Pentode

- 6LM8 • 6MU8

Twin Diode—High-Mu Triode

- 6BN8 • 8BN8

Sharp-Cutoff Pentode

- 3JC6A • 4JC6A • 6EW6
- 4EW6 • 5EW6 • 6JC6A

6. CATHODE-DRIVE RF AMPLIFIERS (GROUNDED-GRID)

Medium-Mu Triode

- 6BC4

Medium-Mu Twin Triode

- 4BC8 • 5BK7A • 6BQ7A/
6BZ7/
- 4BQ7A • 5BQ7A 6BS8
- 4BS8 • 6BC8/6BZ8
- 4BZ7 • 6BK7B

High-Mu Triode

- △ 2CW4 • 4HQ5 △ 6DS4
- △ 2DS4 • 6AB4 • 6HQ5
- 2HQ5 △ 6CW4 △ 13CW4
- 3HQ5

High-Mu Twin Triode

- 6DT8 • 12AZ7A • 12DT8
- 12AT7/ECC81

7. CHROMA AMPLIFIERS

Medium-Mu Triode—Sharp-Cutoff Pentode

- 5GH8A • 6GH8A

Medium-Mu Triple Triode

- △ 6MD8 △ 12MD8

Medium-Mu Twin Triode

- 6FQ7/6CG7 • 8FQ7/8CG7 • 12BH7A
- 6GU7 • 8GU7

8. COLOR KILLERS

Quadruple Diode

- 6JU8A • 8JU8A

Medium-Mu Triode—Sharp-Cutoff Pentode

- 5GH8A • 6GH8A • 6MQ8

High-Mu Triode—Sharp-Cutoff Pentode

- 6KT8

• Miniature △ Nuvistor ▲ Novar

9. COLOR MATRIXING CIRCUITS

Medium-Mu Twin Triode

- 6FQ7/6CG7 • 8FQ7/8CG7 • 12BH7A
- 6GU7 • 8GU7

Medium-Mu Triode—Sharp Cutoff Pentode

- 5GH8A • 6GH8A

Medium-Mu Triple Triode

- ▲ 6MD8 ‡ 6MJ8 ▲ 12MD8

High-Mu Triple Triode

- ‡ 6MN8

Twin Pentode

- 6LE8 • 10LE8 • 15LE8

Quadruple Diode

- 6JU8A • 8JU8A

10. COMPLEX-WAVE GENERATORS

High-Mu Twin Double-Plate Triode

- 12FQ8

Diode—Sharp-Cutoff, Twin-Plate Tetrode

- 6FA7

Diode—Sharp-Cutoff, Three-Plate Tetrode

- 6KM8

Medium-Mu Triode—Three-Plate Tetrode

- 6FH8

11. CONVERTERS

Medium-Mu Triode—Sharp-Cutoff Pentode

- 4KE8 • 5X8 • 6U8A/6KD8
- 5EA8 • 6EA8
- 5GH8A • 6GH8A • 9KZ8
- 5KE8 • 6KE8 • 19EA8
- 5U8 • 6KZ8 • 19X8

High-Mu Twin Triode

- 6DT8 • 12AZ7A • 12DT8
- 12AT7/ECC81

Sharp-Cutoff Pentode

- 3AU6 • 6AU6A • 18GD6A
- 4AU6 • 12AU6

Pentagrid

- 6BA7 • 12BE6 • 18FX6A
- 6BE6

12. DAMPERS

Half-Wave (Diode)

- 6AU4GTA ○ 6DM4A/ ▲ 17BH3A
- 6AX4GTB 6DA4 • 17BR3/
- ▲ 6AY3B ▲ 6DW4B 17RK19
- ▲ 6BA3 ○ 6W4GT ▲ 17BS3A/
- ‡ 6BE3/6BZ3 ○ 12AX4GTB 17DW4A
- ▲ 6BH3A ▲ 12AY3A ‡ 17BW3
- ▲ 6BS3A ‡ 12BE3 ▲ 17CK3
- ‡ 6CG3/6CE3/ ▲ 12BS3A / • 17CT3
- 6CD3/6BW3 12DW4A ○ 17D4
- ▲ 6CJ3/6CH3 ▲ 12CL3 ○ 17DE4
- ▲ 6CK3 ○ 12D4 ○ 17DM4A
- ▲ 6CL3 ○ 17AX4GTA ▲ 22BH3A
- ▲ 6CM3 ▲ 17AY3A ‡ 22BW3
- 6DE4/ ‡ 17BE3/ ○ 22DE4
- 6CQ4 17BZ3 ○ 25AX4GT

13. DEMODULATORS (COLOR TV)

Medium-Mu Twin Triode

- 12BH7A

Medium-Mu Triode—Sharp-Cutoff Pentode

- 5GH8A • 6GH8A

High-Mu Twin Triode

- 12AZ7A

• Miniature ○ Octal ▲ Nuvistor ▲ Novar ‡ Duodecar

Sharp-Cutoff Pentode

- 5HZ6 • 6GY6 ‡ 12BV11
- ‡ 6BV11 • 6HZ6

Pentagrid Amplifier

- 3BY6 • 6BY6

Twin Pentode

- 6LE8 • 10LE8 • 15LE8

Beam Deflection Tube

- 6JH8 • 6ME8

Sharp-Cutoff Twin Pentode

- 6MK8

14. DETECTORS

Diode—Sharp-Cutoff Pentode

- 5AM8 • 6AM8A
- 5AS8 • 6AS8

Diode—Remote-Cutoff Pentode

- 6CR6 • 12CR6 • 12EQ7
- 6EQ7

Twin Diode

- 3AL5 • 6AL5 • 12AL5

Twin Diode—High-Mu Triode

- 3AV6 • 6BN8 • 12AV6
- 4AV6 • 6CN7 • 14GT8
- 6AT6 • 8BN8 • 18FY6A
- 6AV6 • 12AT6

Triple Diode

- 6BJ7
- Triple Diode—High-Mu Triode**
- 5T8 • 6T8A

Quadruple Diode

- 6JU8A • 8JU8A

Sharp-Cutoff Pentode

- 3DT6A* • 5HZ6* • 6GX6*
- 4DT6A* • 6DT6A* • 6HZ6*
- 5GX6*

15. DC RESTORERS

Diode—Sharp-Cutoff Pentode

- 5AM8 • 6AM8A • 6AS8
- 5AS8

Triple Diode

- 6BJ7

16. DISCRIMINATORS

FM

Twin Diode

- 3AL5 • 6AL5 • 12AL5

Twin Diode—High-Mu Triode

- 6BN8 • 14GT8

Triple Diode—High-Mu Triode

- 5T8 • 6T8A

Beam Tube

- 3BN6 • 4BN6 • 6BN6/6KS6

Beam Power Tube—Sharp-Cutoff Pentode

- ‡ 6AL11 ‡ 12AL11 ‡ 17BF11
- ‡ 6BF11 ‡ 12BF11

Pentode—Beam Power Tube

- ‡ 6Z10/6J10 ‡ 13Z10/13J10 ‡ 17AB10/17X10

FM Quadrature-Grid

Sharp-Cutoff Pentode

- 3DT6A* • 6DT6A* • 6GY6*
- 4DT6A* • 6GX6* • 6HZ6*
- 5HZ6*

Beam Tube

- 3BN6 • 4BN6 • 6BN6/6KS6

Horizontal AFC

Twin Diode—High-Mu Triode

- 6BN8 • 8BN8 • 8CN7
- 6CN7

Twin Diode—Sharp Cutoff Pentode

- 6LT8 • 8LT8 • 11LT8

17. FREQUENCY DIVIDERS

High-Mu Twin Double-Plate Triode

- 12FQ8

18. FM DETECTORS

(See 16. Discriminators)

• Miniature ◉ Octal * Dual-control grids ‡ Duodecar

19. GATED NOISE, AGC, AND SYNC AMPLIFIERS

High-Mu Triode—Sharp-Cutoff Pentode
 • 6KA8 • 8KA8 • 8LC8
 • 6LC8

Sharp-Cutoff Pentode
 • 6GY6*

Sharp-Cutoff Twin Pentode
 • 3BU8/ • 4HS8 • 6HS8
 3GS8 • 6BU8

Pentagrid Amplifier
 • 3BY6 • 4CS6 • 6CS6
 • 3CS6 • 6BY6

20. GROUNDED-GRID RF AMPLIFIERS

(See 6. Cathode-Drive RF Amplifiers)

21. HARMONIC GENERATORS

(See 10. Complex-Wave Generators)

22. HORIZONTAL-DEFLECTION CIRCUITS

Amplifiers

Beam Power Tube

○ 6AUSGT	△ 6JT6A	▲ 17JG6A
○ 6AV5GA	▲ 6JU6	‡ 17JM6A
○ 6BQ6GTB/	▲ 6KM6	▲ 17JT6A
6CU6	▲ 6LQ6/	▲ 22JF6
○ 6CB5A	6JE6C	▲ 22JG6A
○ 6CD6GA	○ 12AV5GA	▲ 22JR6
○ 6DQ5	○ 12BQ6GTB/	▲ 22KM6
▲ 6GJ5A	12CU6	▲ 24LQ6/
▲ 6GT5A	▲ 12JB6A	24JE6C
○ 6GW6/	▲ 12JT6A	○ 25AV5GA
6DQ6B	○ 17BQ6GTB	○ 25BQ6GTB/
▲ 6JB6A	▲ 17GJ5A	25CU6
▲ 6JF6	▲ 17GT5A	○ 25CD6GB
▲ 6JG6A	○ 17GW6/	○ 25DN6
‡ 6JM6A	17DQ6B	‡ 31JS6C
▲ 6JR6	▲ 17JB6A	▲ 31LQ6
‡ 6JS6C		

Oscillators

Medium-Mu Triode—Sharp-Cutoff Pentode
 • 5GH8A • 6GH8A

Medium-Mu Twin Triode

• 6FQ7/6CG7 • 8FQ7/8CG7 • 12BH7A
 ○ 6SN7GTB • 9AU7 ○ 12SN7GTA
 • 7AU7 • 12AU7A/ECC82

23. INTERMEDIATE-FREQUENCY AMPLIFIERS

Medium-Mu Triode—Sharp-Cutoff Tetrode
 • 5CQ8 • 6CQ8

Medium-Mu Triode—Sharp-Cutoff Pentode
 • 5AN8 • 6AZ8 • 6GH8A
 • 5GH8A • 6BH8 • 11LQ8
 • 6AN8A • 6CU8

High-Mu Triode—Sharp-Cutoff Pentode
 • 6AW8A • 6KV8 • 10GN8
 • 6GN8 • 8AW8A • 10HF8
 • 6HF8 • 8GN8/ • 10JA8/
 • 6JV8 • 8EB8 • 10LZ8
 • 6KT8 • 8JV8 • 11KV8

Sharp-Cutoff Pentode

• 3AU6	• 4JD6*	• 6DK6
• 3BC5/3CE5	• 5EW6	• 6EJ7/
• 3CB6/3CF6	• 6AG5	EF184
• 3DK6	• 6AK5/	• 6EW6
• 3JC6A	EF95	• 6HS6
• 4AU6	• 6AU6A	• 6JC6A
• 4CB6	• 6BC5/6CE5	• 6JD6*
• 4DE6	• 6CB6A/	• 12AU6
• 4DK6	6CF6	• 12AW6
• 4EW6	• 6DC6	• 12DK6
• 4JC6A	• 6DE6	• 18GD6A

• Miniature ○ Octal * Dual-control grids ‡ Duodecar ▲ Nuovistor ▲ Novar

Diode—Sharp-Cutoff Pentode

- 5AM8 • 6AM8A • 6AS8
- 5AS8

Semiremote-Cutoff Pentode

- 3BZ6 • 4KT6 • 6HR6
- 3KT6 • 5GM6 • 6JH6
- 4BZ6 • 6BZ6 • 6KT6
- 4EH7/LF183 • 6EH7/EF183 • 12BZ6
- 4GM6 • 6GM6 • 19HR6
- 4JH6

Remote-Cutoff Pentode

- 6BA6/EF93 • 12BA6 • 18FW6A

Remote-Cutoff Pentode with Diode

- 6EQ7 • 12EQ7

24. KEYED AGC AMPLIFIERS

(See 19. Gated Noise, AGC, and Sync Amplifiers)

25. LIMITERS

Beam Tube

- 3BN6 • 4BN6 • 6BN6/ 6KS6

Sharp-Cutoff Pentode

- 3AU6 • 6GX6 • 6HZ6
- 4AU6 • 6HS6 • 12AU6
- 6AU6A

Power Pentode—Beam Power Tube

- ‡ 6Z10/6J10 ‡ 13Z10/13J10 ‡ 17AB10/17X10

26. MIXERS—RF

Medium-Mu Twin Triode

- 5J6 • 6J6A

High-Mu Triode

- △ 2CW4 △ 6CW4 △ 13CW4
- 6AB4

27. MIXER-OSCILLATORS—RF

Medium-Mu Triode—Sharp-Cutoff Tetrode

- 5CL8A • 6CL8A • 19JN8/
- 5CQ8 • 6CQ8 19CL8A

Medium-Mu Triode—Sharp-Cutoff Pentode

- 4KE8 • 5U8 • 6KE8
- 5AT8 • 5X8 • 6KZ8
- 5B8 • 6AT8A • 6U8A/
- 5BR8/ • 6BR8A/ • 6KD8
- 5FV8 6FV8A • 6X8A
- 5CG8 • 6CG8A • 9KZ8
- 5EA8 • 6EA8 • 9U8A
- 5FG7 • 6FG7 • 19EA8
- 5KE8 • 6HB7 • 19X8

High-Mu Twin Triode

- 6DT8 • 12AT7/ • 12DT8
- ECC81

28. MULTIVIBRATORS

Medium-Mu Triode—Sharp-Cutoff Pentode

- 5GH8A • 6GH8A

Medium-Mu Twin Triode

- 6FQ7/6CG7 • 8FQ7/8CG7 • 12BH7A
- 6GU7 • 8GU7 ○ 12SN7-
- 6SN7GTB • 9AU7 GTA
- 7AU7 • 12AU7A/ ECC82

High-Mu Twin Triode

- 12AX7A/ ECC83

29. NOISE INVERTERS (NOISE IMMUNE CIRCUITS)

High-Mu Triode—Sharp-Cutoff Pentode

- 6KA8 • 8KA8 • 8LC8
- 6LC8

Sharp-Cutoff Pentode

- 6GY6*

Quadruple Diode

- 6JU8A • 8JU8A

30. OSCILLATORS

Radio Frequency—UHF

Medium-Mu Triode

- 2AF4B/ • 3AF4A/ △ 6DV4
- 2DZ4 3DZ4 • 6DZ4
- △ 2DV4 • 6AF4A

• Miniature ○ Octal * Dual-control grids △ Nuvistor ‡ Duodecar

▪ Approaches semiremote-cutoff characteristics; used in first-if amplifier applications

Radio Frequency—VHF

Medium-Mu Twin Triode

- 5J6 • 6J6A

High-Mu Triode

- 6AB4

Power Triode

- 6C4 (Class C)

3.58-MHz (Color TV)

Medium-Mu Triode—Sharp-Cutoff Pentode

- 5GH8A • 6GH8A

High-Mu Triode—Sharp-Cutoff Pentode

- 6KT8

Low Frequency, Sweep Type

Medium-Mu Triode—Sharp-Cutoff Pentode

- 5AN8 • 6BA8A • 8AU8
- 6AN8A • 6BH8 • 8BA8A
- 6AU8A • 6CH8 • 8BH8
- 6AZ8

Twin Diode—High-Mu Triode

- 6BN8 • 8BN8 • 8CN7
- 6CN7

High-Mu Twin Triode

- 12AX7A/ECC83

31. PHASE INVERTERS

Medium-Mu Twin Triode

- 6FQ7/6CG7 • 8GU7 • 12BH7A
- 6GU7 • 8FQ7/8CG7 ○ 12SN7-
- 6SN7GTB • 9AU7 GTA
- 7AU7 • 12AU7A/ECC82

High-Mu Triode—Sharp-Cutoff Pentode

- 6AW8A • 8AW8A • 10GN8
- 6EB8 • 8GN8/ • 10HF8
- 6GN8 8EB8 • 10JA8/
- 6HF8 10LZ8

High-Mu Twin Triode

- 6SL7GT ○ 12SL7GT • 7025
- 12AX7A/ECC83

Medium-Mu Triple Triode

- ‡ 6AV11

32. PHASE SPLITTERS

Medium-Mu Triode—Sharp-Cutoff Tetrode

- 5CQ8 • 6CQ8

Medium-Mu Triode—Sharp-Cutoff Pentode

- 5AN8 • 6BA8A • 8BA8A
- 6AN8A • 6CU8 • 7199
- 6AZ8

High-Mu Triode—Sharp-Cutoff Pentode

- 6AW8A • 8AW8A

33. RADIO-FREQUENCY AMPLIFIERS

Medium-Mu Triode

- 2BN4A • 6BC4 • 6BN4A
- 3BN4A

Medium-Mu Triode—Sharp-Cutoff Tetrode

- 5CQ8 • 6CQ8

Medium-Mu Twin Triode

- 4BC8 • 5BQ7A • 6BQ7A/
- 4BQ7A • 5J6 6B77/
- 4BS8 • 6BC8/6BZ8 • 6BS8
- 5BK7A • 6BK7B • 6J6A

High-Mu Triode

- △ 2CW4 • 3ER5 △ 6DS4
- △ 2DS4 • 3FH5 • 6ER5
- △ 2EG4 • 3GK5 • 6FH5
- 2ER5 • 3HM5/3HA5 • 6GK5/
- 2FH5 • 4GK5 6FQ5A
- 2GK5/ • 6AB4 • 6HM5/6HA5
- 2FQ5A △ 6CW4 △ 13CW4

• Miniature ○ Octal △ Nuvistor * Dual-control grids ‡ Duodecar

High-Mu Twin Triode

- 6DT8 • 12AZ7A • 12DT8

Power Triode

- 6C4 (Class C)

Sharp-Cutoff Tetrode

- 2CY5 • 6CY5 • 6FV6
- 3CY5

Sharp-Cutoff Pentode

- 3AU6 ◊ 4DE6 • 6CB6A/6CF6
- 3BC5/3CE5 • 6AG5 • 6DC6
- 3CB6/ • 6AK5/EF95 • 6DE6
- 3CF6 • 6AU6A • 12AU6
- 4AU6 • 6BC5/6CE5 • 12AW6
- 4CB6 • 6BH6 • 18GD6A

Remote-Cutoff Pentode

- 6BA6/EF93 • 12BA6 • 18FW6A
- 6BJ6

Remote-Cutoff Pentode with Diode

- 6EQ7 • 12EQ7

34. REACTANCE CIRCUITS

Medium-Mu Triode—Sharp-Cutoff Pentode

- 5AN8 • 6AZ8 • 6CU8
- 6AN8A • 6BA8A • 8BA8A

Twin Diodes—High-Mu Triode

- 6CN7 • 8CN7

- Miniature ◊ Octal ▲ Novar † Duodecar

High-Mu Triode—Sharp-Cutoff Pentode

- 6AW8A • 8AW8A

35. RECTIFIERS

Power-Supply Types—Vacuum

Half-Wave (Diode)

- 35W4 • 36AM3B • 50DC4
- ◊ 35Z5GT

Full-Wave (Twin Diode)

- ◊ 3DG4 ◊ 5V3A • 6CA4
- ◊ 5AS4A 5AU4 • 6X4
- ▲ 5BC3A ◊ 5V4GA ◊ 6X5GT
- ◊ 5DJ4 ◊ 5Y3GT • 12X4
- ◊ 5U4GB

High-Voltage Types (For rf-rectifier or pulsed low-current applications)—Vacuum

Half-Wave (Diode)

- 1BC2 • 2BJ2 ◊ 3CN3A
- ◊ 1G3GT/ ◊ 2CN3A ◊ 3CU3A
- 1B3GT ◊ 3A3B ◊ 3CX3
- ◊ 1K3/1J3 † 3BW2/ ◊ 3CZ3
- 1V2 3BS2A/ ◊ 3DB3/
- 1X2B/1X2A 3BT2 3CY3
- 2AV2 ◊ 3CA3

36. REGULATORS (HIGH VOLTAGE)

Beam Triode

- ◊ 6BK4C/6EL4A ◊ 6LJ6A/6LH6A

Beam Power Tube

- ▲ 17KV6A ▲ 22KV6A

37. SYNC AMPLIFIERS

Medium-Mu Triode—Sharp-Cutoff Pentode

- 6AU8A • 6CX8 • 8CX8
- 6AZ8 • 8AU8

Medium-Mu Twin Triode

- 6FQ7/6CG7 • 8FQ7/8CG7
- 7AU7 • 9AU7
- 12AU7A/ECC82

High-Mu Triode with Twin Diode

- 6CN7 • 8CN7

High-Mu Triode—Sharp-Cutoff Pentode

- 6AW8A • 6JV8 • 8JV8
- 6HF8 • 8AW8A • 10HF8

High-Mu Twin Triode

- 12BZ7

38. SYNC CLIPPERS

Medium-Mu Triode—Sharp-Cutoff Tetrode
 • 5CQ8 • 6CQ8

Medium-Mu Triode—Sharp-Cutoff Pentode
 • 5AN8 • 6AZ8 • 8AU8
 • 6AN8A • 6CU8 • 8CX8
 • 6AU8A • 6CX8

High-Mu Triode—Sharp-Cutoff Pentode
 • 6AW8A • 6HF8 • 8JV8
 • 6EB8 • 6JV8 • 10GN8
 • 6GN8 • 8AW8A • 10HF8
 • 6GW8/
ECL86 • 8GN8/
8EB8 • 10JA8/
10LZ8

High-Mu Twin Triode
 • 12BZ7

Sharp-Cutoff Twin Pentode
 • 3BU8/ • 4HS8 • 6HS8
 3GS8 • 6BU8

Pentagrid Amplifier
 • 3BY6 • 4CS6 • 6CS6
 • 3CS6 • 6BY6

39. SYNC SEPARATORS

Medium-Mu Triode—Sharp-Cutoff Tetrode
 • 5CQ8 • 6CQ8

Medium-Mu Triode—Sharp-Cutoff Pentode
 • 5AN8 • 6CU8 • 6MQ8
 • 5GH8A • 6CX8 • 8AU8
 • 6AN8A • 6GH8A • 8CX8
 • 6AU8A • 6HL8 • 11LQ8
 • 6AZ8 • 6LQ8

Medium-Mu Twin Triode
 • 6FQ7/6CG7 • 8FQ7/8CG7 • 12AU7A/
 7AU7 • 9AU7 ECC82

Twin Diode—High-Mu Triode
 • 6CN7 • 8CN7

High-Mu Triode—Sharp-Cutoff Pentode
 • 6AW8A • 6KV8 • 8LC8
 • 6EB8 • 6LC8 • 10GN8
 • 6GN8 • 8AW8A • 10HF8
 • 6HF8 • 8GN8/
8EB8 • 10JA8/
• 6KA8 • 8JV8 10LZ8
• 6KT8 • 8KA8 • 11KV8

High-Mu Twin Triode
 • 12BZ7

Sharp-Cutoff Twin Pentode

• 3BU8/ • 4HS8 • 6HS8
 3GS8 • 6BU8 • 6MK8

Pentagrid Amplifier

• 3BY6 • 4CS6 • 6CS6
 • 3CS6 • 6BY6

40. TUNING INDICATORS

Indicator with Triode Unit

6E5

Twin Indicator Units

◦ 6AF6G

41. VERTICAL-DEFLECTION CIRCUITS

Oscillators and Amplifiers(Combined)

Medium-Mu Triode—Low-Mu Triode

• 6DE7 • 10DE7 • 13DE7
 § 6EW7 § 10EW7

Medium-Mu Dual Triode

• 6CM7 • 8CM7 • 8CS7
 • 6CS7

Medium-Mu Twin Triode

• 6FQ7/6CG7 • 8FQ7/8CG7

• Miniature ◦ Octal § Neonval

High-Mu Triode—Low-Mu Triode

- 6CY7 ○ 6GL7 • 13DR7
- 6DR7 • 10DR7 ○ 13EM7/
- 6EM7/6EA7 ○ 10EM7 15EA7
- ▲ 6FD7 ▲ 10GF7A ▲ 13FD7
- ▲ 6GF7A • 11CY7 ▲ 13GF7A

High-Mu Triode—Beam Power Tube

- ▲ 6KY8A ▲ 15KY8A

Dual Triode

- 6EM7/6EA7 ▲ 6GF7A ○ 13EM7/
- 15EA7

Amplifiers

Low-Mu Triode

- 12B4A

Medium-Mu Triode

- 6S4A

Beam Power Tube

- 5AQ5 • 6EM5 • 12AQ5
- 5CZ5 • 6HR5 • 12JQ6#
- 5V6GT • 6JQ6# ○ 12V6GT
- 6AQ5A ○ 6V6 • 17JQ6#
- 6CM6 ○ 6V6GTA
- 6CZ5 • 8EM5

Power Pentode

- 6K6GT

42. VIDEO AMPLIFIERS

Medium-Mu Triode—Sharp-Cutoff Pentode

- 5AN8 • 6BH8 • 6MQ8
- 5GH8A • 6CU8 • 8AU8
- 6AN8A • 6CX8 • 8BA8A
- 6AU8A • 6GH8A • 8BH8
- 6AZ8 • 6HL8 • 8CX8
- 6BA8A • 6LQ8 • 11LQ8

High-Mu Triode—Sharp-Cutoff Pentode

- 6AW8A • 6KV8 • 8JV8
- 6EB8 • 6LF8 • 10GN8
- 6GN8 • 8AW8A • 10HF8
- 6HF8 • 8GN8/ • 10JA8
- 6JV8 8EB8 • 11KV8
- 6KT8

Sharp-Cutoff Pentode

- 3JC6A • 7KY6 • 12BY7A /
- 4JC6A • 11HM7 12BV7/
- 6JC6A § 12WG7 12DQ7

Sharp-Cutoff Pentode

- 5AM8 • 6AM8A • 12HL7
- 5AS8 • 6AS8

Power Pentode

- 6AG7 • 6CL6 • 6GK6

• Miniature ○ Octal ▲ Novar § Neomoval # With an integral diode