



## ADVANCE DATA

The following tube types feature controlled heater warm-up time for operation in 150 Ma series heater strings. They are otherwise identical to their adjacently listed counterparts.

Type No.	Approximate Heater Warm-Up Time (Secs.)*	Counterpart	Counterpart Release No.
12AT6A	17	12AT6	446
12AU6A	17	12AU6	547
12AV6A	17	12AV6	627
12BA6A	17	12BA6	446
12BE6A	17	12BE6	446
12BN6A	17	12BN6	786
14GT8A	17	14GT8	2660
17C9A	17	17C9	3004
19CL8B	17	19CL8A	2501
19EA8A	17	19EA8	2501
19T8A	17	19T8	583
35C5A	17	35C5	636
35EH5A	17	35EH5	2557
35W4A	17	35W4	446
50C5A	17	50C5	636
50EH5A	17	50EH5	2204

## NOTES:

- \* Heater warm-up time is defined as the time required for the voltage across the heater to reach 80% of its rated value after applying four (4) times rated heater voltage to a circuit consisting of the tube heater in series with a resistance equal to three (3) times rated heater voltage divided by rated heater current.

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