



6AT8

## TRIODE-PENTODE CONVERTER

9-PIN MINIATURE TYPE

6AT8

The 6AT8 is the same as the 6X8 except for the following items:

Direct Interelectrode Capacitances:

|                                          | Without<br>External<br>Shield | With<br>External<br>Shield <sup>0</sup> |                  |
|------------------------------------------|-------------------------------|-----------------------------------------|------------------|
| <b>Triode Unit:</b>                      |                               |                                         |                  |
| Grid to plate. . . . .                   | 1.5                           | 1.5                                     | $\mu\mu\text{f}$ |
| Grid to cathode and<br>heater . . . . .  | 2                             | 2.4                                     | $\mu\mu\text{f}$ |
| Plate to cathode and<br>heater . . . . . | 0.5                           | 1                                       | $\mu\mu\text{f}$ |

|                                                                        |            |            |                  |
|------------------------------------------------------------------------|------------|------------|------------------|
| <b>Pentode Unit:</b>                                                   |            |            |                  |
| Grid No.1 to plate . .                                                 | 0.025 max. | 0.016 max. | $\mu\mu\text{f}$ |
| Grid No.1 to cathode,<br>grid No.3, grid No.2,<br>and heater . . . . . | 4.5        | 4.7        | $\mu\mu\text{f}$ |
| Plate to cathode, grid<br>No.3, grid No.2, and<br>heater . . . . .     | 0.9        | 1.6        | $\mu\mu\text{f}$ |

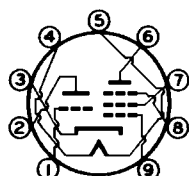
|                                                |           |                  |                  |
|------------------------------------------------|-----------|------------------|------------------|
| Pentode grid No.1 to<br>triode plate . . . . . | 0.05 max. | 0.04 max.        | $\mu\mu\text{f}$ |
| Pentode plate to triode<br>plate. . . . .      | 0.05 max. | 0.007 max.       | $\mu\mu\text{f}$ |
| Heater to cathode. . . .                       | 6.5       | 6.5 <sup>•</sup> | $\mu\mu\text{f}$ |

**Pentode Unit Connected  
as Triode:**<sup>▲</sup>

|                                                |     |     |                  |
|------------------------------------------------|-----|-----|------------------|
| Grid No.1 to plate and<br>grid No.2. . . . .   | 1.3 | 1.3 | $\mu\mu\text{f}$ |
| Grid No.1 to cathode,<br>grid No.3, and heater | 3   | 3.3 | $\mu\mu\text{f}$ |
| Plate to cathode, grid<br>No.3, and heater . . | 1.7 | 2.5 | $\mu\mu\text{f}$ |

Basing Designation for BOTTOM VIEW . . . . . 9DW

Pin 1 - Triode Grid  
Pin 2 - Triode Plate  
Pin 3 - Cathode  
Pin 4 - Heater  
Pin 5 - Heater  
Pin 6 - Pentode Plate



Pin 7 - Pentode  
Grid No.2  
Pin 8 - Pentode  
Grid No.3  
Pin 9 - Pentode  
Grid No.1

<sup>0</sup> With external shield JETEC No.316 connected to pin no.3, except as noted.

<sup>•</sup> With external shield JETEC No.316 connected to ground.

<sup>▲</sup> Grid No.3 connected to cathode, and grid No.2 connected to plate.

Curves shown under Type 6X8 also apply to the 6AT8

← Indicates a change.

MAR. 1, 1955

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DATA