DAYLIGHT VIEWING CATHODE RAY TUBES

The National Union Daylight Viewing tubes were developed to provide a five inch cathode-ray tube of minimum length and maximum beam current. These tubes have a standard 9 pin miniature base, use magnetic focus and deflection, and produce beam currents of 0.6 to 1.0 ma. under normal operation. These features together with low heater power consumption (1.26 watts) and maximum overall length of 7.5 inches provide a rugged as well as reliable cathode-ray tube that can be designed into airborne or small compact equipments or can be used where high ambient light levels are encountered.

MAXIMUM RATINGS

Heater voltage (ac or dc).......................... 6.3 v.
Anode voltage...................................... 10 Kv.
Grid voltage (negative)........................... 250 v.
Grid voltage (positive)........................... 0 v.
Grid resistor...................................... 1.5 meg.

TYPICAL OPERATING CONDITIONS

Heater voltage................................. 6.3 v.
Heater current................................. 200 ma.
Cathode current............................... 500 µa
Grid cutoff voltage............................ 50 v.
Anode voltage.................................... 8 Kv.

INTERELECTRODE CAPACITANCES

GL to all other elements.......................... 4.0 µf (max.)
K to all other elements.......................... 5.5 µf (max.)

PHYSICAL SPECIFICATIONS

Overall length.................................. 7.5 in.
Useful screen diameter.......................... 4.25 in.
Maximum bulb diameter.......................... 5.0 in.
Tube neck diameter.............................. 0.87 in.
Cap (anode)........................................ snap on terminal
Base.................................................. 9-pin miniature
Alignment, anode button and base.......... between pins 1 and 9

BASE PIN CONNECTIONS

Pin 1.......... Grid 1 Pin 6.......... Grid 1
Pin 2.......... Heater Pin 7.......... N.C.
Pin 3.......... N.C. Pin 8.......... Heater
Pin 4.......... Grid 1 Pin 9.......... Grid 1
Pin 5.......... Cathode

PHOSPHOR

<table>
<thead>
<tr>
<th>PHOSPHORESCENCE</th>
<th>PERSISTENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>5ALP1.. Green</td>
<td>Medium</td>
</tr>
<tr>
<td>5ALP4.. White</td>
<td>Medium</td>
</tr>
<tr>
<td>5ALP7.. Blue</td>
<td>Yellow</td>
</tr>
<tr>
<td>5ALP11.. Blue</td>
<td>Short</td>
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</tbody>
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Note: Face tilt within limits set by MIL-E-148 electron tube spec. for 10-3-4

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