

CHARACTERISTICS

GENERAL DATA

| | |
|---------------------------------------|---------------------|
| Focusing Method | Electrostatic |
| Deflecting Method | Magnetic |
| Deflection Angles (Approx.) | Diagonal 70 Degrees |
| Phosphor | Aluminized P4 |
| Fluorescence | White |
| Persistence | Short to Medium |
| Faceplate, Cover Plate | See Table I |

ELECTRICAL DATA

| | |
|------------------------------------------------|-------------------|
| Heater Voltage | 6.3 Volts |
| Heater Current | 0.3 ± 10 % Ampere |
| Emission Warm-Up Time (Approx.) | 30 Sec. |
| Direct Interelectrode Capacitance (Max.) | |
| Cathode to All Other Electrodes | 10 pf |
| Grid No. 1 to All Other Electrodes | 10 pf |
| External Conductive Coating to Anode | 200-350 pf |

MECHANICAL DATA

| | |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Minimum Useful Screen Dimensions | 4 ³ / ₈ x 5 ³ / ₄ Inches |
| Bulb Contact (Recessed Small Ball Cap) | J1-22 |
| Base | E9-37 |
| Basing | 9HT |
| Bulb Contact has Radial Alignment about Tube Axis with Centerline Between Base Pins No. 1 and 9 | ±30 Degrees |

RATINGS

MAXIMUM RATINGS (Absolute Maximum Values)

| | |
|---------------------------------------------------|------------------------|
| Anode Voltage | 13,000 Volts dc |
| Grid No. 4 Voltage (Focusing Electrode) | -550 to +1100 Volts dc |
| Grid No. 2 Voltage | 550 Volts dc |
| Grid No. 1 Voltage | |
| Negative Bias Value | 155 Volts dc |
| Positive Bias Value | 0 Volt dc |
| Positive Peak Value | 2 Volts dc |
| Peak Heater-Cathode Voltage | ±100 Volts |

TYPICAL OPERATING CONDITIONS

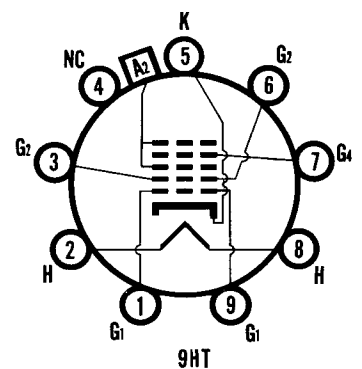
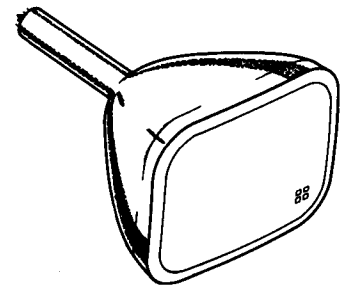
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|----------------------------------------------|-----------------------|------|
| Anode Voltage | 10,000 Volts | Max. |
| Grid No. 4 for Focus | -125 to +300 Volts dc | |
| Grid No. 2 Voltage | 300 Volts dc | |
| Grid No. 1 Voltage | | |
| Required for Spot Cutoff | -40 to -60 Volts dc | |
| Brightness at 100 μa Anode Current | 60 Ft. L. | Min. |

CIRCUIT VALUE

| | |
|-----------------------------------------|-----------------|
| Grid No. 1 Circuit Resistance | 1.5 Megohm Max. |
|-----------------------------------------|-----------------|

QUICK REFERENCE DATA

Monitor Tube
Electrostatic Focus
Magnetic Deflection
4³/₈ x 5³/₄ Rectangular Screen
Bonded Shield
Anti-Reflection Treated
ST-3183A, ST-3183B,
ST-3183C, ST-3183E



**SYLVANIA ELECTRIC
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**Electronic Components Group
ELECTRONIC TUBE DIVISION
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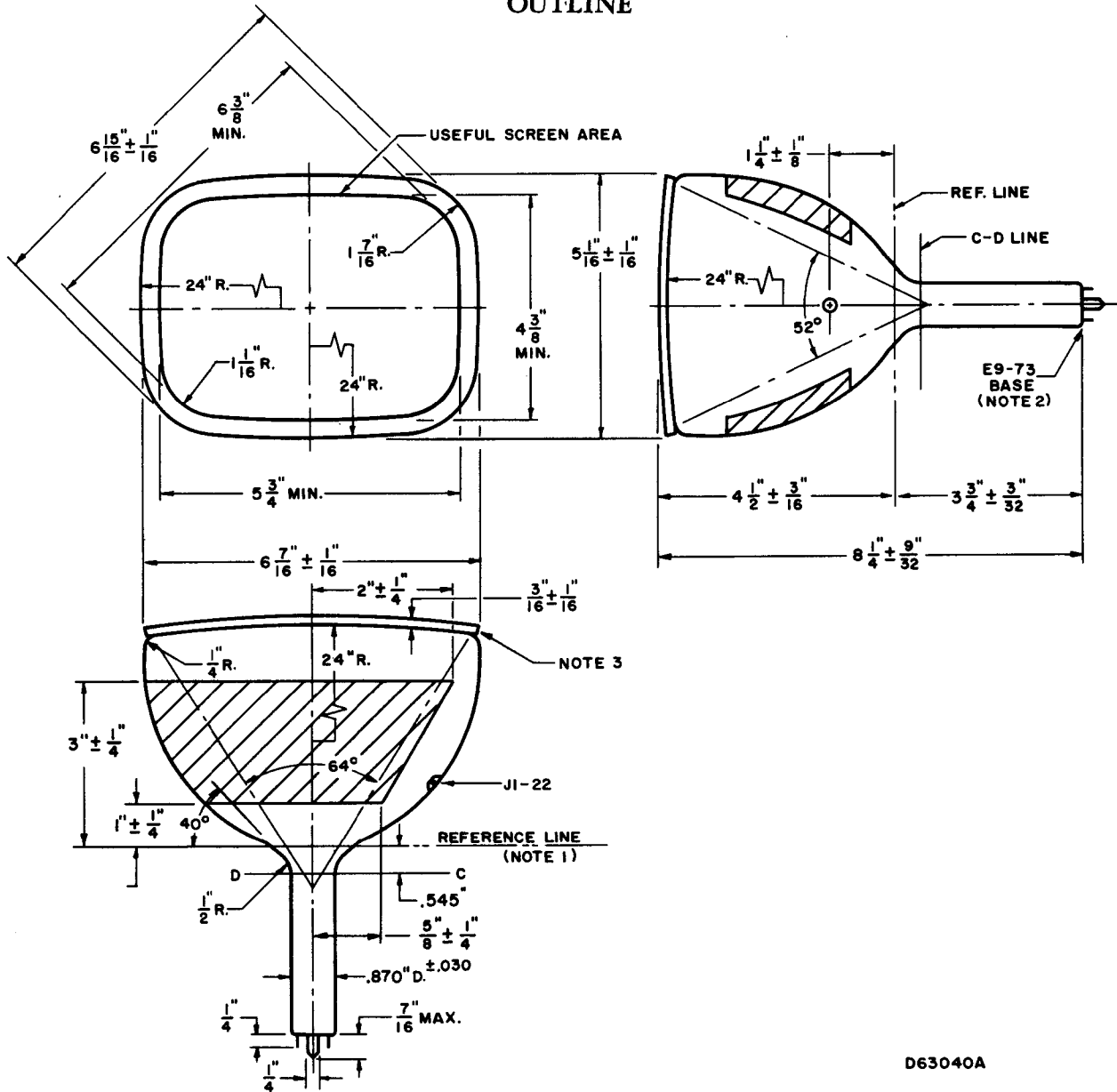
File Under

**SPECIAL AND GENERAL
PURPOSE CATHODE RAY TUBES**

TABLE I.
 Approximate Face and Cover Transmittance by Type
 All Covers Anti-reflection Coated

| TYPE | FACE TRANS. | COVER TRANS. | COMBINED TRANS. |
|----------|-------------|--------------|-----------------|
| ST-3183 | 92 % | No Cover | 92 % |
| ST-3183A | 72 % | 60 % | 46 % |
| ST-3183B | 92 % | 32 % | 30 % |
| ST-3183C | 92 % | 92 % | 88 % |
| ST-3183D | 72 % | No Cover | 72 % |
| ST-3183E | 92 % | 14 % | 15 % |

OUTLINE



D63040A

DIAGRAM NOTES:

1. Reference line is determined by plane C-C' of JEDEC No G141 Reference Line Gauge, when the gauge is seated against the bulb.
2. Center plane between Pins 1 and 9 aligns with major axis of tube within 30° and is on same side as anode contact, J1-22.
3. Safety plate not to extend beyond mold match more than $\frac{1}{8}$ inch.