

## Vidicon

**Short, Ruggedized, 1-Inch Diameter Type**

**Magnetic Focus**

**Magnetic Deflection**

**Low-Power 0.6 W Heater**

**1000 TV Line Resolution**

*For Compact, Low-Power Transistorized TV Cameras Where Severe Shock and Vibration Conditions Exist*

*The 7263A is the same as the 7262A except for the following:*

### **SPECIAL PERFORMANCE DATA**

In connection with the following tests, sample 7263A's will maintain resolution as determined with a RETMA Resolution Chart, or equivalent, and will faithfully reproduce all resolution wedges and grey scales of the chart.

**Vibration Tests** These tests are performed under conditions for *Average-Sensitivity Operation* on a sample lot of tubes from each production run. Tubes and their associated components§ are vibrated on apparatus providing dynamic conditions similar to those described in MIL-E-5272B♦, par.4.7.1.

*Resonance.* Tubes and associated components§ are vibrated (per the method of MIL-E-5272B♦, par.4.7.1.1) for 1 hour at +25° C, for 15 minutes at 0° C, and for 15 minutes at +55° C.

*Cycling.* Tubes and associated components§ are vibrated (per the method of MIL-E-5272B♦, par.4.7.1.2 pertaining to specimen without vibration isolators) for 1 hour at +25° C, for 15 minutes at 0° C, and for 15 minutes at +55° C.

**Temperature-Pressure (Altitude) Tests.** Tubes and associated components§ are subjected (per the method of MIL-E-5400\* par.3.2.20, 3.2.20.1, and 3.2.20.1.1) to the separate and combined effects of varying temperature 0° to +55° C and varying barometric pressure 30" to 3.4" of mercury. The pressures correspond to sea level and to an altitude of 50,000 feet, respectively.

**Shock Tests.** These tests are performed with no voltages applied on a sample lot of tubes from each production run. Tubes are subjected in these tests (per MIL-E-5400\*, par.3.2.21.2.1) to 18 impact shocks of 15g consisting of 3 shocks in opposite directions along each of three mutually perpendicular axes of the tube. Each shock impulse has a duration of  $11 \pm 1$  milliseconds with a maximum impact acceleration occurring at approximately 5.5 milliseconds. Tube mounting accessories assure the rigid fastening of the tube to the shock test apparatus.

**Temperature-Humidity Tests.** These tests are performed with no voltages applied to the 7263A. The 7263A is subjected (per the method of MIL-E-5400\*, par. 3.2.20.2B) to relative humidities up to and including 95 per cent at temperatures up to and including  $+50^{\circ}\text{C}$ .

§ Tube socket such as Cinch No.54A18088 and RCA Assembly No.200SDU501, or equivalent, which consists of the deflecting coils, focusing coil, alignment coil, shield, and target connector.

♦ 5 June 1957, Procedure 1 of Military Specification.

\* 1 January 1956.

#### TYPICAL COMPONENT ASSEMBLY FOR TUBE OPERATION UNDER SEVERE ENVIRONMENTAL CONDITIONS

