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 $+25^{\circ}$ C, for 15 minutes at 0° C, and for 15 minutes at $+55^{\circ}$ 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 ± 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° 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

