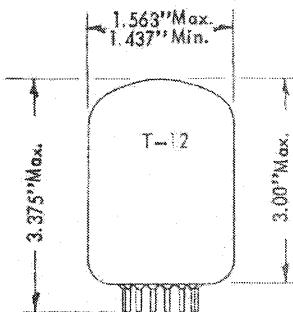
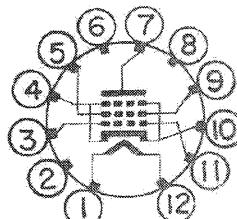


RAYTHEONTECHNICAL
INFORMATION
SERVICE

Technical Information

**6HD5
21HD5
28HD5**
BEAM PENTODES
MECHANICAL DATA

ENVELOPE T-12 Glass
BASE 12-Pin Button E12-74
MOUNTING POSITION Any

PHYSICAL DIMENSIONS

BASING 12 ES

BOTTOM VIEW
TERMINAL CONNECTIONS

Pin 1	Heater
Pin 2	No Connection
Pin 3	Grid #1
Pin 4	Cathode & Grid #3
Pin 5	Grid #2
Pin 6	Internal Conn. *
Pin 7	Plate
Pin 8	Internal Conn. *
Pin 9	Grid #2
Pin 10	Cathode & Grid #3
Pin 11	Grid #1
Pin 12	Heater

* Do not use — It is suggested that socket clips for these pins be omitted to improve insulation factor of socket.

RAYTHEON

**6HD5
21HD5
28HD5**

BEAM PENTODES

ELECTRICAL DATA (cont'd.)

** For operation in a 525 line, 30-frame system as described in "Standards of Good Engineering Practice for Television Broadcasting stations; Federal Communications Commission". The duty cycle of the voltage pulse not to exceed 15% of a scanning cycle and its duration is limited to 10 micro seconds.

Design—Maximum ratings are limiting values of operating and environmental conditions applicable to a bogey tube of a specified type as defined by its published data, and should not be exceeded under the worst probable conditions.

The tube manufacturer chooses these values to provide acceptable servicability of the tube, taking responsibility for the effects of changes in operating conditions due to variations in tube characteristics.

The equipment manufacturer should design so that initially and throughout life no design—maximum value for the intended service is exceeded with a bogey tube under the worst probable operating conditions with respect to supply—voltage variations, equipment component variation, equipment control adjustment, load variation, signal variation, and environmental conditions.

- + Surge not to exceed 15 seconds duration.
- ++ Instantaneous values.
- Heater current at bogie heater voltage.
- Heater voltage at bogie heater current.
- The equipment designer shall design equipment so that the heater voltage for the 6HD5 and the heater current for the 21HD5 and 28HD5 are centered at the specified bogey value with heater supply variations restricted to maintain heater voltage (or current) within the specified tolerance.

AVERAGE PLATE CHARACTERISTICS

