



*Excellence in Electronics*

**TYPE**  
**CK547DX**

The CK547DX is a subminiature power amplifier pentode designed for use in portable and wearable equipment. The flexible terminal leads may be soldered or welded directly to the terminals of circuit components without the use of sockets. Standard inline subminiature sockets may be used by cutting the leads to a suitable length. It is electrically similar to type CK541DX,

**MECHANICAL DATA**

ENVELOPE: T-1 1/2 X 2 Glass

BASE: None (0.016" tinned flexible leads. Length: 1.5" min.  
Spacing: 0.048" center-to-center.)

DIMENSIONS:

Max. Overall Length	1.25 inches
Max. Width	0.290 inches
Max. Thickness	0.235 inches

TERMINAL CONNECTIONS: (Red Dot is adjacent to Lead 1)

Lead 1 Plate	Lead 4 Control Grid
Lead 2 Screen Grid	Lead 5 Filament, Negative ●
Lead 3 Filament, Positive ●	

MOUNTING POSITION: Any

**ELECTRICAL DATA**

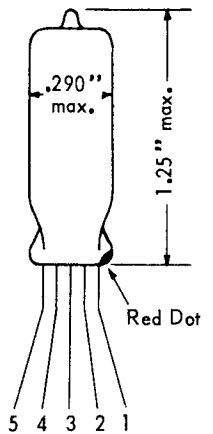
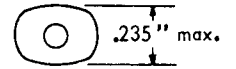
RATINGS - ABSOLUTE MAXIMUM VALUES:

Filament Voltage	1.25 ± 20% volts
Plate Voltage	45 volts
Screen Grid Voltage	45 volts
Cathode Current	0.5 ma.

CHARACTERISTICS AND TYPICAL OPERATION:

Filament Voltage	1.25	1.25	1.25 volts
Filament Current	10	10	10 ma.
Plate Voltage	22.5	30	45 volts
Screen Grid Voltage	22.5	30	45 volts
Control Grid Voltage ♦	0	0	-1.25 volts
No-Signal Plate Current	100	270	170 μa
No-Signal Screen Grid Current	25	65	40 μa
Transconductance	250	425	320 μmhos
Plate Resistance	1.2	0.75	1.6 meg.
Load Resistance	0.3	0.2	0.2 meg.
Input Signal (RMS) ■	0.5	0.6	0.7 volts
Distortion	12	12	12 percent
Power Output	0.5	2.0	3.5 mw

- Grid #3 is composed of two deflector plates, one being connected to lead 3 and the other to lead 5.
- ♦ Grid returned to negative filament through 10 megohms.
- From a source having an internal impedance of 2 megohms.



1.25 ± 20% volts
45 volts
45 volts
0.5 ma.

5 4 3 2 1

Tentative Data

**RAYTHEON MANUFACTURING COMPANY**

RECEIVING AND CATHODE RAY TUBE OPERATIONS