



## TWIN TETRODE

**DESCRIPTION**

The CK5656 is a twin tetrode designed for use at frequencies up to the 400 megacycle region. The screen grids for the two sections are connected internally and by-passed to cathode by an internal condenser of approximately 15 micro-micro-farads capacitance.

**MECHANICAL DATA**

**Bulb:** T-6 $\frac{1}{2}$

**Base:** Miniature Button 9-Pin

**Dimensions:**

Maximum Overall Length	2 $\frac{3}{16}$	inches
Maximum Seated Height	1 $\frac{15}{16}$	inches
Maximum Diameter	$\frac{7}{8}$	inches

**Terminal Connections:**

Pin 1	Grid #2 (Both Units)	Pin 6	Cathode (Both Units)
Pin 2	Grid #1 (Unit #1)	Pin 7	Plate (Unit #2)
Pin 3	Grid #1 (Unit #2)	Pin 8	Plate (Unit #1)
Pin 4	Heater	Pin 9	Cathode (Both Units)
Pin 5	Heater		

**Mounting Position:** Any

**ELECTRICAL DATA****Direct Interelectrode Capacitance - Each Unit (Without External Shield)**

Grid #1 to plate	.06	max.
Input	4.0	
Output	1.5	
Screen to Cathode approx.	15	uuf (including internal screen by-pass condenser)

**Design Center Maximum Ratings: (Each Unit)**

Plate Voltage	200	volts
Grid #2 Voltage	150	volts
Plate Dissipation	3.5	watts
Grid #2 Dissipation	.8	watt
Cathode Current	30	ma

**Characteristics and Typical Operation: - Class A1 (Each Unit)**

Heater Voltage	6.3	volts
Heater Current (Total)	0.40	amp.
Plate Voltage	200	volts
Grid #2 Voltage	150	volts
Grid #1 Voltage	-3.5	volts
Plate Resistance	.075	megohm
Transconductance	6200	umhos
Plate Current	15	ma
Screen Current	2.3	ma
Grid Voltage (For $I_b=10$ ua)	-13	volts

Rev. 1  
CS-2451



## TWIN TETRODE

## ELECTRICAL DATA (cont.)

Characteristics and Typical Operation - Push-Pull - Class C  
Telegraphy.

	<u>ICAS</u>	*
Heater Voltage	6.3	volts
Heater Current (Total)	0.40	amp.
Plate Voltage	200	volts
Grid #2 Voltage	150	volts
Grid D.C. Voltage	-13.5	volts **
Grid Current	3	ma
Plate Current	45	ma
Screen Current	9	ma
Power Output	2.5	watts approx.
Frequency	300	mc.

\* ICAS = Intermittent Commercial and Amateur Service.

\*\* Obtain preferably from 2500 ohms grid resistor in series with 6 volts fixed supply.

Tentative Data  
August 27, 1948

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