



Excellence in Electronics

TYPE
CK5969

The CK5969 is a filament type double tetrode of subminiature construction designed for Push-Pull Class C RF amplifier service, without neutralization, at VHF frequencies. The screen grids for the two sections are connected internally, and to two of the base terminal leads. This feature, together with the common internal filament connections between the two sections, reduces the RF impedance between sections to facilitate Push-Pull RF performance. The flexible terminal leads may be soldered or welded directly to the terminals of circuit components without the use of sockets. Standard 8-pin subminiature sockets may be used by cutting the leads to a suitable length.

MECHANICAL DATA

ENVELOPE: T-3 Glass

BASE: Subminiature Button 8-Pin (0.016" tinned flexible leads, Length: 1.50" minimum)

TERMINAL CONNECTIONS:

- Lead 1 Filament, Negative
- Lead 2 Grid #1, Unit 2
- Lead 3 Grid #2, Unit 1 and 2
- Lead 4 Plate, Unit 2
- Lead 5 Plate, Unit 1
- Lead 6 Grid #2, Unit 1 and 2
- Lead 7 Grid #1, Unit 1
- Lead 8 Filament, Positive

MOUNTING POSITION: Any

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES: (each unit) ($\mu\text{fds.}$) ●

Grid to Plate: (g to p)	0.30 max.
Input: g1 to (f+g2)	2.5
Output: p to (f+g2)	2.5
Grid to Grid: (1g to 2g)	0.14
Plate to Plate: (1p to 2p)	0.30

RATINGS - ABSOLUTE MAXIMUM VALUES - PUSH-PULL CLASS C AMPLIFIER:

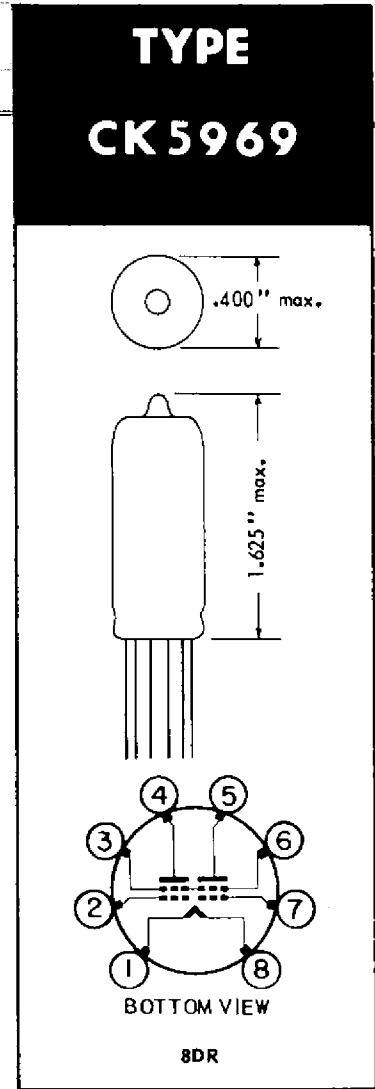
Filament Voltage (dc)	1.25 ± 20% volts
Plate Voltage	150 volts
Grid #2 Voltage	50 volts
Cathode Current	15 ma.
Plate Dissipation (each section)	0.96 watts

CHARACTERISTICS AND TYPICAL OPERATION - CLASS A AMPLIFIER:

Filament Voltage (dc)	1.25 volts
Filament Current	200 ma.
Plate Voltage	135 volts
Grid #2 Voltage	45 volts
Grid #1 Voltage	-3.0 volts
Transconductance (each unit) ▲	1700 μmhos
Plate Current (each unit) ▲	6.0 ma.
Grid #2 Current (each unit) ▲	0.6 ma.
Grid #1 Voltage (approx.) for $I_b = 50 \mu\text{a.}$ (each unit) ▲	-12 volts

● No External Shield.

▲ $E_c1 = -15$ on unit not under test.



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Tentative Data

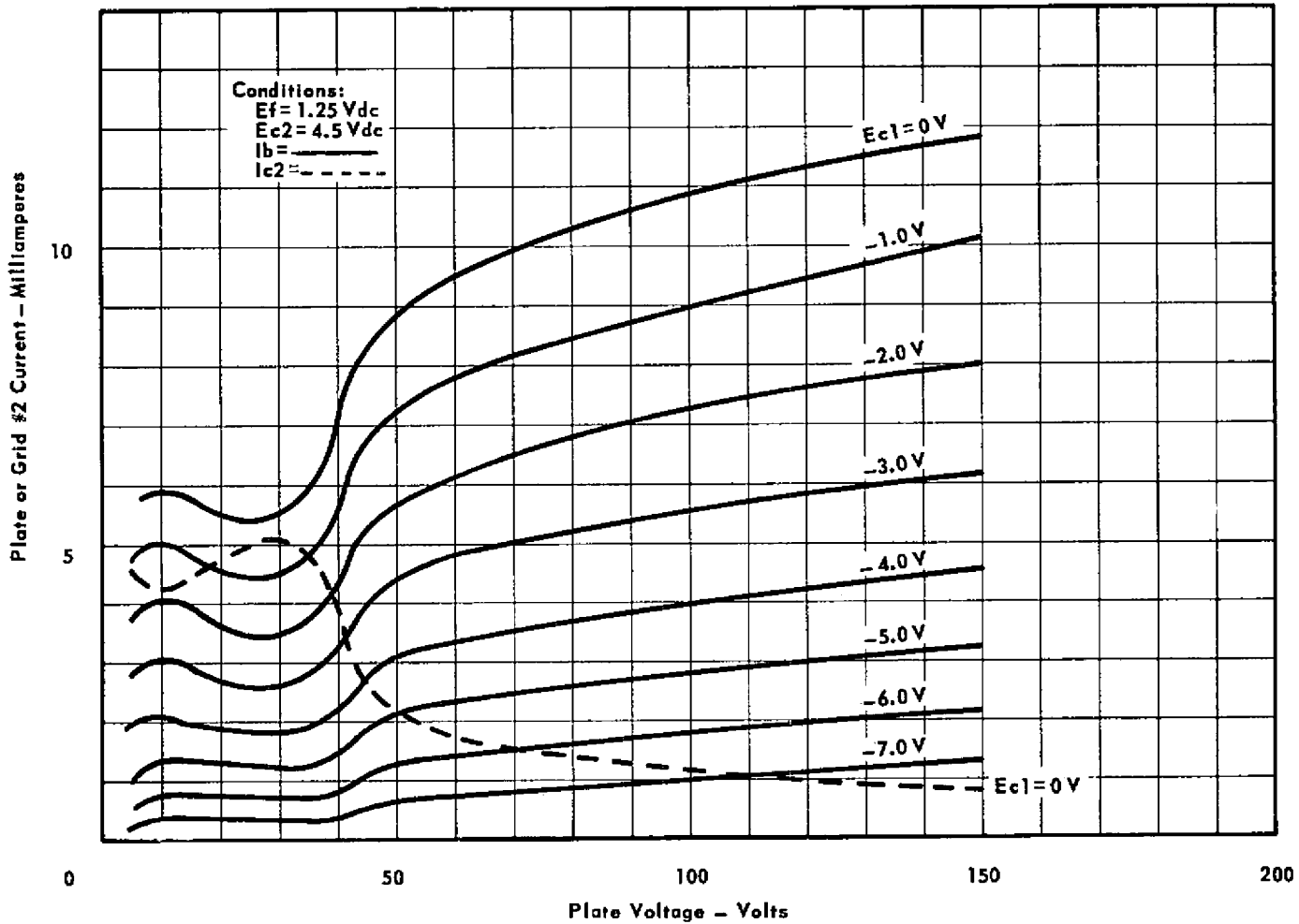
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SUBMINIATURE DOUBLE TETRODE

AVERAGE PLATE CHARACTERISTICS



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