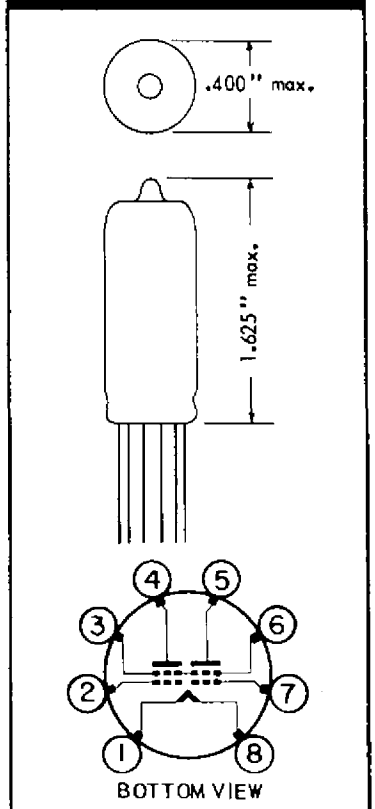
TYPE CK5969

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

MOUNTING POSITION: Any

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES: (each unit) ($\mu\mu$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 Ib = 50 μa. (each unit)▲	−12	volts

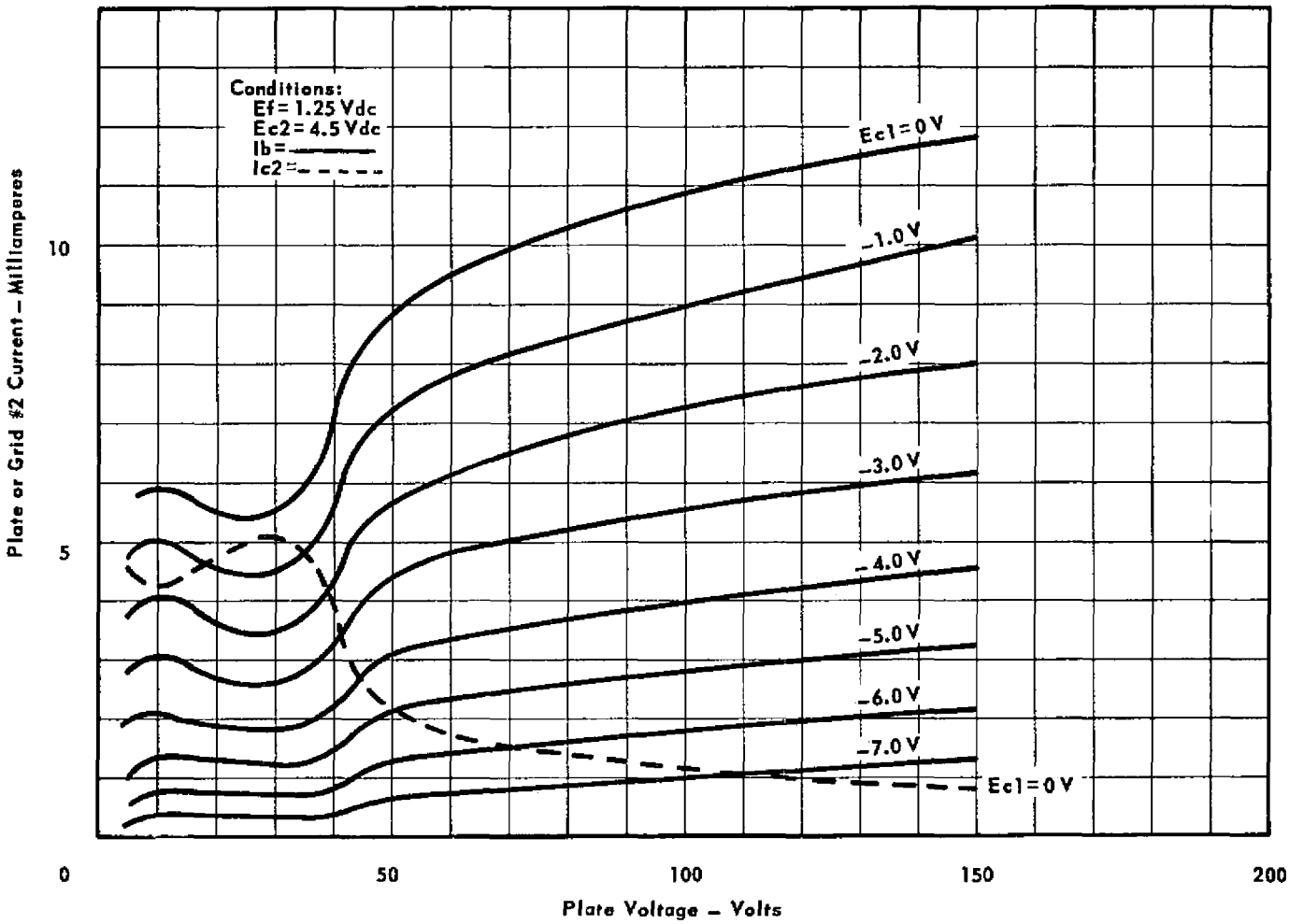
● *No External Shield.*

▲ *Ec1 = −15 on unit not under test.*

from JETEC release #1961, July 1, 1957

Tentative Data

RAYTHEON

SUBMINIATURE DOUBLE TETRODE

AVERAGE PLATE CHARACTERISTICS