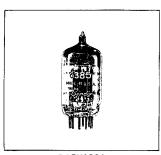
File Catalog: Special Purpose Electron Tubes Section: Amplifier Tubes

6385
Bendix Red Bank Type TE-21
(Generic Type 5670)

DOUBLE TRIODE



RATINGS*

6.3 volts.
0.50 amps.
300 volts
25 ma.
1.5 watts
+0 voits -100 voits
300 volts
1.0 megahm
45 sec.

(Plate and healer voltage may be applied simultaneously)

- To obtain greatest life expectancy from tube, avaid designs where the tube is subject to all maximum rallings simultaneously.
- • Voltage should not fluctuate mare than # 5%.

PHYSICAL CHARACTERISTICS

Base Miniature bu	utton 9-pin
Bułb	T-61/2
Max. overall length	2¾6 in.
Max, seated height	115/is in.
Max. diameter	% in.
Mounting position	Any
Max. bulb temp	160°C

DESCRIPTION

This miniature nine-pin double triade is one of the Bendix Red Bank line of reliable vacuum tubes specifically designed for aircraft and industrial applications where freedom from early failure, long average service life, and uniform operating characteristics are extremely important. It is intended to replace the 2C.51 or the 5670 in applications where reliability is the primary consideration. Each tube is given a 45-hour run-in under various overload, vibration, and shock conditions likely to be encountered in service. This run-in serves to reduce early failures by eliminating tubes with any minor defects that might lead to failure under actual operating conditions;

The use of a call type heater inside an extruded alumina insulator gives a long life heater structure which stands up well under high heater to cathoda voltage. The mount structure is so designed that the tube is capable of withstanding severe shock and vibration.

The tube is intended for use as an amplifier—to increase or control alternating voltages or power; as a mixer—to change electrical energy at one frequency to electrical energy at another frequency; or as an oscillator—to generate an alternating voltage. It can also be used in control equipment as part of a multivibrator or clamp circuit. When used as an oscillator, the upper limit of its frequency range is approximately 500 mc.

AVERAGE ELECTRICAL CHARACTERISTICS

TELOTRICAL OTTAKACIEN		
Heater voltage, E	6.3	volts
Heater current, I,	0.50	amps.
Plate voltage, E	150	valts
Grid voltage, E,	-2.0	valts
Plate current, I _h	8.0	ma,
Mutual conductance, gni	5000	μmhos
Amplification factor, μ	35	
Cut-off voltage	-10	volts
Direct interelectrode capacitances (no shield)		
Plate-grid (per section).		1.7 ppf
Plate-cathode (per section)		1.1 µµf
Grid-cathode (per section)		2.4 µµf
Plate-plate		0.1 <i>դ</i> ք

RED BANK DIVISION
BENDIX AVIATION CORPORATION
EATONTOWN, NEW JERSEY



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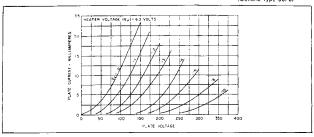
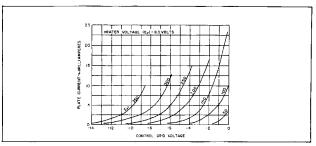


PLATE CHARACTERISTICS



TRANSFER CHARACTERISTICS

