

Taylor



Tubes

841-A

50 WATTS PLATE DISSIPATION

CARBON ANODE

\$7.00



THE BEST TUBE
for
DOUBLER OR BUFFER
in
HIGH POWER TRANSMITTERS
and as
CLASS "C" AMPLIFIER
in
MEDIUM POWER TRANSMITTERS

A new type general purpose tube for use as an Oscillator, Doubler, and R. F. Power Amplifier. This tube has been redesigned and characteristics changed slightly for improved efficiency. Has a power gain of 16 to 1. Highly efficient down to $7\frac{1}{2}$ meters being adopted by Diathermy Machine Manufacturers for their low power apparatus at this wave-length.

GENERAL CHARACTERISTICS

Type 841A

Filament Voltage, volts.....	10
Filament Current, amps.....	2
Plate Resistance, ohms.....	3600
Mutual Conductance, μ Mhos.....	4000
Amplification Factor, ...	14.6
Thoriated Tungsten Filament	

OVERALL DIMENSIONS

Maximum Length, inches.....	$6\frac{1}{4}$
Maximum Diameter, inches.....	$2\frac{5}{8}$

INTERELECTRODE CAPACITIES

Plate to Grid, mmf.....	9
Grid to Filament, mmf.....	3.5
Plate to Filament, mmf.....	2.5

CLASS "C" OSC AND POWER AMP

Max. Operating Plate Volts	
Unmodulated D.C., volts.....	1250
Modulated D.C., volts.....	1000
Max. D.C. Plate Current, mls.....	150
Max. D.C. Grid Current, mls.....	30
Max. Plate Dissipation, watts.....	50
Max. RF Grid Current, amps.....	5
Max. RF Output, watts.....	85

NORMAL OPERATION

$E_p = 1000$	$E_g = -180$	$E_f = 10$
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GENERAL INFORMATION

The 841-A tube is the equivalent in power to the old metal anode type 211 and 203-A tubes. Cut your tube costs by using this tube in driver stages for final amplifiers on frequencies down to 10 meters. For C.W. transmission on 40, 75 and 160 meter inputs up to 250 watts are being applied by many amateur Radio Operators. One 841-A with an input of 150 watts is capable of exciting a final amplifier, with a 1 kilowatt input, efficiently for phone operation on 80 and 160 meters. Higher efficiency can be obtained with higher plate voltages and high bias with this tube. Higher voltages can be applied because of the added insulation feature of having plate lead at top.

The maximum rated plate current may be increased at reduced plate voltages.

A condenser with a maximum capacity of 15 mmf and a voltage break-down rating of 3000 volts is necessary to neutralize a type 841-A tube. Do not place neutralizing condenser in RF field of tank circuit.

Taylor Tubes are conservatively rated as to plate dissipation. The maximum D.C. Grid Mil rating does not mean that the tube requires that amount to fully excite it; it means that the tube can be over-excited to that maximum rating without injury to the tube.

CARBON ANODES

PRODUCE

More Watts Per Dollar