FULL-WAVE RECTIFIER TUBE

TANTALUM ANODES AND XENON GAS FILLING

Maximum Rated Current per Tube
D-c. Meter Value—Continuous 2.5 amps
D-c. Meter Value—Overload less than 3 sec. 3.7 amps
Averaging Time 4.5 secs
Oscillograph Peak—Continuously recurring 10 amps
Max. Instantaneous Short Circuit Current (0.1 sec.) 150 amps

Peak Inverse Voltage (Max. Instantaneous) 725 volts

Max. Commutation Factor (V/usec x A/usec) 0.66
Max. Anode Supply Frequency 250 cps

Filament
Voltage 2.5 volts
Current 11.5 ± 1.0 amperes
Heating Time (minimum) 30 secs

Average Arc Drop
Average Tube 8 volts
Highest Tube at end of life 13 volts

Anode Starting Voltage (Instantaneous)
Average Tube 12 volts
Highest Tube 15 volts

Ambient Temperature Limits -55°C to +75°C

Mounting Position Any

Overall Dimensions 2-1/32" x 7-1/2" Max.
Weight 5 ozs.

Connections Metal industrial base A4-81

The filament must be lit before drawing d-c. load current.

All of the above values are for returns to the filament transformer center tap.

The filament voltage should be phased so the a-c. voltage (with the tube out of the socket and some d-c. load connected) from pin #1 to pin #2 is lower than from pin #1 to pin #3. This phasing of filament voltage relative to anode voltage insures a lower arc drop and somewhat longer life.

The Engineering Manual contains additional information which should be considered in the circuit design.

EL 3CF

Ratings and characteristics of the EL 3CF are the same as for the EL 3C. The only difference is a special base of 1.54" maximum diameter.

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