



ML-575A ML-673

DESCRIPTION & RATINGS

DESCRIPTION

The ML-575A and ML-673 are two-electrode, mercury-vapor tubes designed specifically for use as half-wave rectifiers. Rugged structure and low internal voltage drop contribute to reliability and efficient performance in radio frequency heating applications as well as in radio transmitting service. The filamentary type cathode is oxide coated and is designed to withstand the effects of sagging and vibration.

The large cathode shield provides improved thermal radiation from the filament and protects the filament from extraneous electrostatic fields. Both tubes are identical with respect to characteristics, differing only in the types of bases provided. Maximum ratings of 15 PKV inverse anode voltage and 1.5 amperes average cathode current for in-phase operation apply at frequencies of 25 to 150 cycles per second.

GENERAL CHARACTERISTICS

Electrical

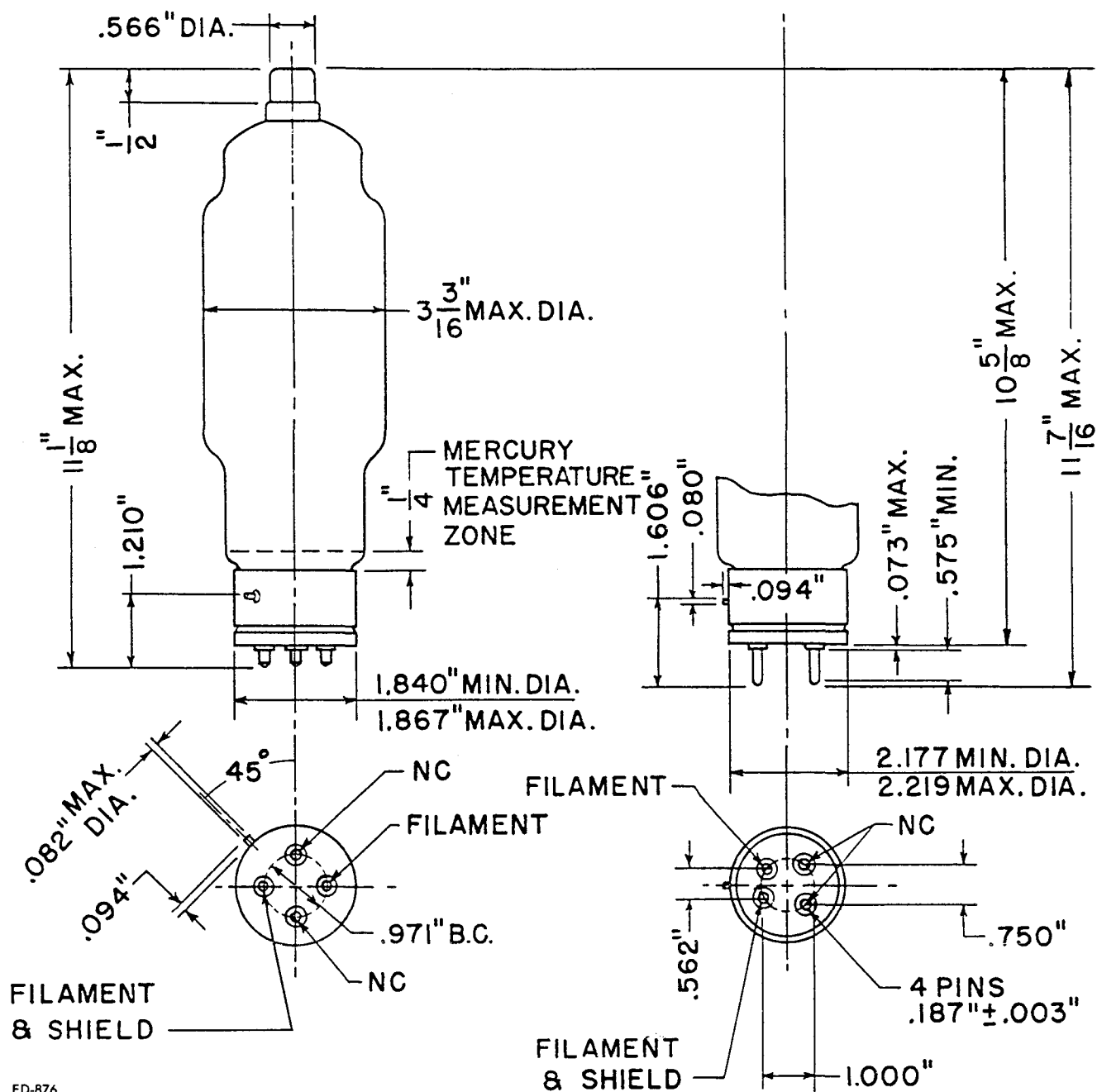
Filament Voltage	5.0	Volts
Filament Current at 5.0 Volts	10.0	Amps
Cathode Heating Time, minimum (Before applying Plate Voltage)	30	Secs
Tube Voltage Drop, approximate	10	Volts

Mechanical

Mounting Position	Vertical, Base Down
Type of Cooling	Convection
Condensed Mercury Temperature Rise to Equilibrium, approximate	
No Load	12 °C
Full Load	20 °C
Base, ML-575A	Jumbo, 4-Pin Bayonet, JEDEC No. A4-29
ML-673	Super-Jumbo, 4-Pin Bayonet, JEDEC No. A4-18
Cap	Medium Metal, JEDEC No. C1-5
Net Weight, approximate	13 Oz.

MAXIMUM RATINGS

Maximum Peak Inverse Anode Voltage			
150 cycles per second or less	10000	15000	Volts
Condensed Mercury Temperature Range	+20 to +60	+20 to +50	°C
Maximum Cathode Current			
Peak			
Quadrature Operation	10.0	10.0	Amps
In Phase Operation	7.0	6.0	Amps
Average			
Quadrature Operation	2.5	2.5	Amps
In Phase Operation	1.75	1.5	Amps
Fault (Maximum Duration 0.1 Second)	100	100	Amps
Maximum Averaging Time	20	20	Secs
Maximum Frequency	150	150	cps



ED-876

ML-575A

ML-673

THE MACHLETT LABORATORIES, INC.

a division of Raytheon Company

SPRINGDALE



CONNECTICUT