

# —Standard Valves—

## BALLAST LAMPS

In telephone repeaters it is essential that the filaments of the amplifying valves should be supplied with a constant current. As the battery voltage is liable to variation it is often necessary to use a ballast lamp to supply a constant current for a considerable voltage fluctuation.

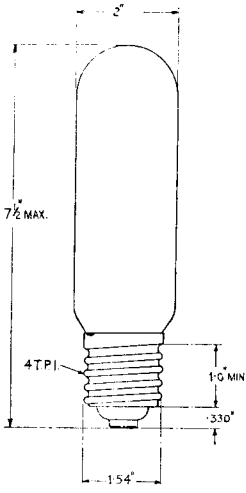
The following types of ballast lamps are available :—

Type	Overall length ins.	Diameter ins.	Voltage limits volts	Current limits amps.	Net weight	
					lbs.	gms.
4003-A	5	1 1/4	3—9.5	0.94 — 1.01	0.1	45
4004-A	4	1 1/4	7—14	0.24 — 0.26	0.08	35
4004-B	4	1 1/4	3—9	0.24 — 0.26	0.1	45
4004-C	4	1 1/4	3—9	0.254—0.276	0.1	45
4007-A	7 1/2	2	9—14	3.3 — 3.4	0.3	140
4008-A	5 3/8	2	5.5—12	1.7 — 2.2	0.17	75
4120-AA	4	1 1/4	5.5—12	0.39 — 0.47	0.07	30
4121-AA	4 1/2"	1.89"	5.5—12	0.78 — 0.94	0.1	45

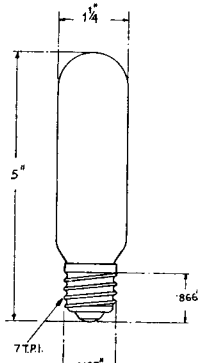
### Base.

4003-A	Edison medium screw.
4004-A, -B, -C	Edison medium screw.
4007-A	Edison Goliath screw.
4008-A	Edison medium screw.
4120-AA	Edison medium screw.
4121-AA	Edison medium screw.

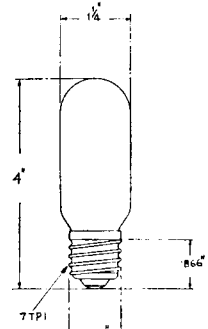
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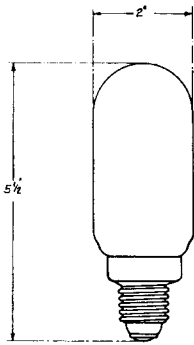
4007-A



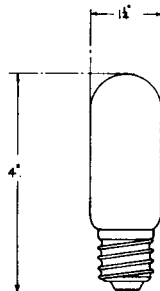
4003-A



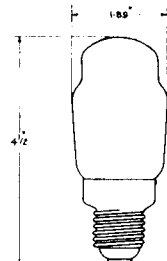
4004-A, -B, -C



4008-A



4120-AA



4121-AA