VACUUM CAPACITORS (Fixed)

TYPE NO.	Capacity mmfd	Max. Peak KV	Max. RMS Current Amps	Freq. at Max. Current Megacycles	TYPE NO.
*VC25/20	25	20	60	27	*VC25/20
VC50/20	50	20	60	13	VC50/20
VC100/20	100	20	60	6.8	VC100/20

TYPE NO.	Capacity mmfd	Max. Peak KV	Max. RMS Current Amps	Freq. at Max. Current Megacycles	TYPE NO.
*VC25/32	25	32	60	16	*VC25/32
VC50/32	50	32	60	7.7	VC50/32
VC100/32	100	32	60	4	VC100/32
VC250/32	250	32	60	3.7	VC250/32

NOTE: All metal parts of Amperex fixed vacuum capacitors are OFHC (oxygen free high conductivity) copper.

The above condensers should not be confused with old style vacuum condensers of nickel construction which results in high R-F losses, high temperature co-efficient, seal puncture and low voltage breakdown.

Amperex vacuum capacitors employ large elements with glass to copper seals. This results in low temperature co-efficient, low R-F losses and low inductance.

Maximum current ratings of Amperex vacuum condensers are based on a maximum glass to metal seal temperature of 180°C. The internal condenser losses are largely ohmic, I^2R, losses and decrease as the frequency decreases; therefore the maximum RMS current ratings (ie; VC100) increases from 40 amperes at 40 mc to 70 amperes at 5 mc.

Capacitors identified with * (asterisk) have a capacity tolerance of ±1 mmfd. All other capacitors have a tolerance of ±2% of rated value.

VOLTAGE REFERENCE AND REGULATOR TUBES

TYPE NO.		Operating Voltage (Approx.) Volts	Operating Voltage Limits Volts	Recommended Quiescent Current Milliamperes	Ignition Voltage② Volts	Internal Resistance Max. Ohms	Current Range Milliamperes	Regulation③ Max. Volts
0A2		150	144-164	17.5	185 max.	240	5-30	6
0B2		108	106-111	17.5	133 max.	140	5-30	3.5
90C1		90	86-94	20	125 max.	350	1-40	14
6354/15082		150	146-154④	10	180 max.	500	5-15	5
Voltage Reference Tubes	0E3/85A1⑤	85	83-87	4	120 max.	-	1-8	3.15
	0G3/85A2⑤	85	83-87	6	125 max.	450	1-10	4
	5651	87	82-92	2.5	115 min.	-	1.5-3.5	3

① Spread in operating voltage from tube to tube at recommended quiescent current

② Over tube life

③ Over full current range

④ Drift in operating voltage during 1000 hours: max. 1%

⑤ Drift in operating voltage during the first 300 hours of life: max. 0.3%
Short term drift in operating voltage (100 hours max.) after the first 300 hours of operation: max. 0.1%
Temperature coefficient of operating voltage = -2.7 mV/°C