



6SC7

6SC7



TWIN-TRIODE AMPLIFIER

SINGLE-ENDED METAL TYPE

Heater	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.3	amp.
Direct Interelectrode Capacitances (approx.):*		
Grid to Plate	2	μ f
Grid to Cathode	2.2	μ f
Plate to Cathode	3	μ f
Maximum Overall Length		2-5/8"
Maximum Diameter		1-5/16"
Bulb		Metal Shell, MT-8
Base		Small Wafer Octal 8-Pin
Pin 1 - Shell		Pin 5 - Plate (Triode T_1)
Pin 2 - Plate (Triode T_2)		Pin 6 - Cathode
Pin 3 - Grid (Triode T_2)		Pin 7 - Heater
Pin 4 - Grid (Triode T_1)		Pin 8 - Heater
Mounting Position	BOTTOM VIEW (8S)	Any



CHARACTERISTICS - Each Unit

Plate	250	volts
Grid	-2	volts
Amp.	70	
Plate Res.	53000 approx.	ohms
Transcond.	1325 approx.	μ mhos
Plate Cur.	2	ma.

CLASS A_1 AMPLIFIER - Each Unit

Plate Voltage 250 max. volts
 Typical Operation:
 See RESISTANCE-COUPLED AMPLIFIER CHART.

* values for each unit with shell connected to cathode.
 • In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

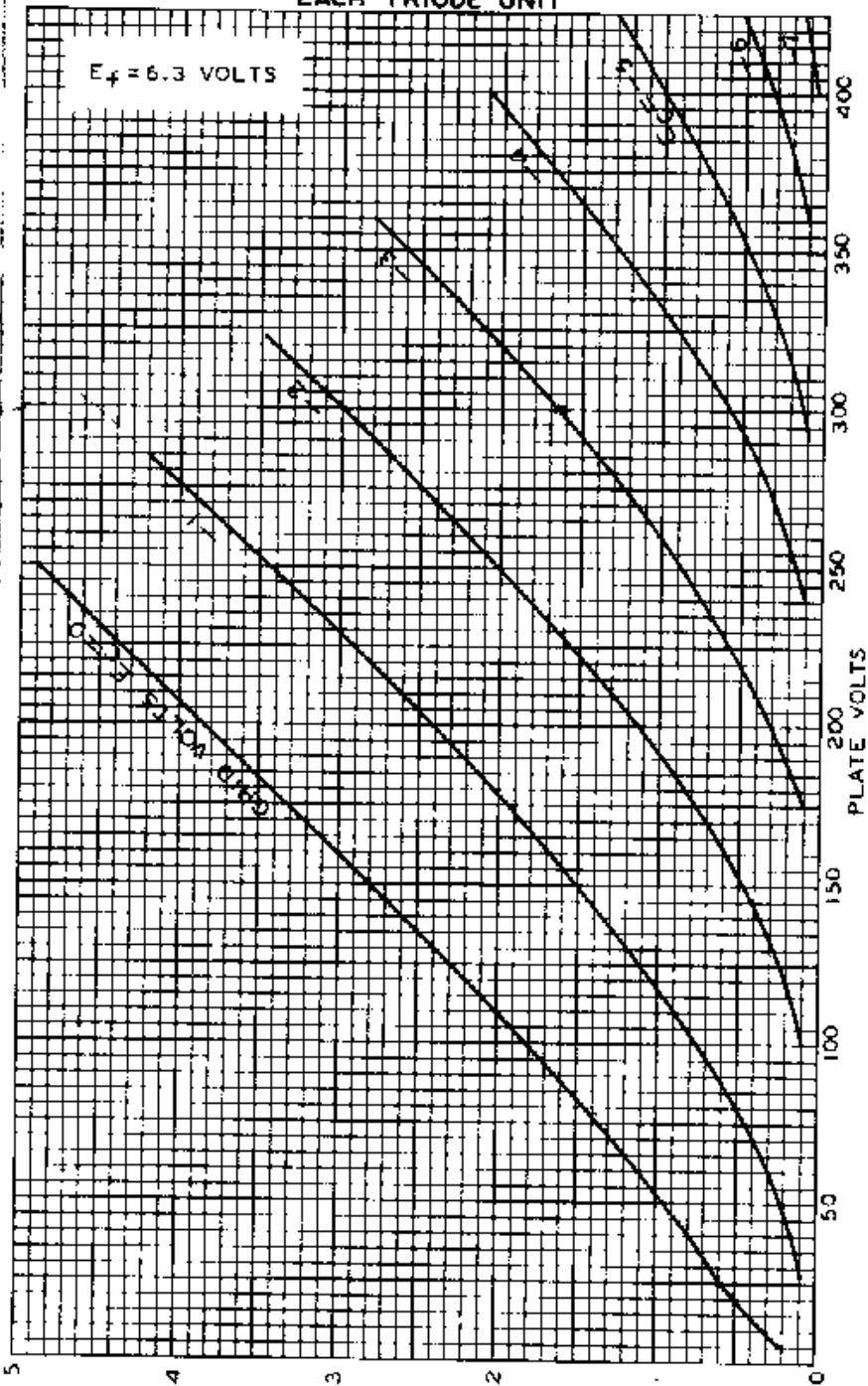
Also see data sheets for type 6SL7GT (very similar electrical characteristics, different pinout)

6SC7



6SC7

AVERAGE PLATE CHARACTERISTICS EACH TRIODE UNIT



OCT. 16, 1940

RCA RADIOEON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-6096R1



RESISTANCE-COUPLED AMPLIFIER CHARTS (Continued)

See Circuit Diagram 1									
7									
E_{bb}	R_p	R_g	R_{g2}	R_k	C_{g2}	C_k	C	E_o	V.G.
90	0.1	0.1	-	4200	-	2.5	0.025	5.4	22 \blacklozenge
		0.22	-	4600	-	2.2	0.014	7.5	27 \blacklozenge
		0.47	-	4800	-	2.0	0.0065	9.1	30 \blacklozenge
	0.22	0.22	-	7000	-	1.5	0.013	7.3	30 \blacklozenge
		0.47	-	7800	-	1.3	0.007	10	34 \blacksquare
		1.0	-	8100	-	1.1	0.0035	12	37 \star
	0.47	0.47	-	12000	-	0.83	0.006	10	36 \blacklozenge
		1.0	-	14000	-	0.7	0.0035	14	39 \star
		2.2	-	15000	-	0.6	0.002	16	41 \star
180	0.1	0.1	-	1900	-	3.6	0.027	19	30 \star
		0.22	-	2200	-	3.1	0.014	25	35
		0.47	-	2500	-	2.8	0.0065	32	37
	0.22	0.22	-	3400	-	2.2	0.014	24	38
		0.47	-	4100	-	1.7	0.0065	34	42
		1.0	-	4600	-	1.5	0.0035	38	44
	0.47	0.47	-	6600	-	1.1	0.0065	29	44
		1.0	-	8100	-	0.9	0.0035	38	46
		2.2	-	9100	-	0.8	0.002	43	47
300	0.1	0.1	-	1500	-	4.4	0.027	40	34
		0.22	-	1800	-	3.6	0.014	54	38
		0.47	-	2100	-	3.0	0.0065	63	41
	0.22	0.22	-	2600	-	2.5	0.013	51	42
		0.47	-	3200	-	1.9	0.0065	65	46
		1.0	-	3700	-	1.6	0.0035	77	48
	0.47	0.47	-	5200	-	1.2	0.006	61	48
		1.0	-	6300	-	1.0	0.0035	74	50
		2.2	-	7200	-	0.9	0.002	85	51

▷ At 2 volts (RMS) output. ■ At 3 volts (RMS) output. ★ At 4 volts (RMS) output

6AQ6, 6AQ7, 6AT6, 6Q7, 6Q7-GT/G,
6SL7-GT (one section), 6SZ7, 6T8, 12AT6
12Q7, 12Q7-GT/G, 12SL7-GT, 19T8