

TUBES FOR MOBILE COMMUNICATIONS EQUIPMENT

 Type	Description	Special Tests and Controls					
		Low Frequency Vibration	Intermittent Shorts	Heater-Cathode Leakage	Inter-electrode Leakage	Heater-Cycling	Life Test
TYPES OPERATING FROM 6-CELL STORAGE-BATTERY SYSTEMS							
7054	Power Pentode. 9-pin miniature heater-cathode type. For use as a class C rf power amplifier, oscillator or frequency multiplier at frequencies up to 40 Mc. Receiving-tube prototype 12BY7-A.	✓	✓	✓	✓	✓	✓
7055	Twin Diode. 7-pin miniature heater-cathode type. For use as a detector or full-wave rectifier in power supplies having low dc requirements. Receiving-tube prototype 6AL5.	—	✓	✓	✓	✓	✓
7056	Sharp-Cutoff Pentode. 7-pin miniature heater-cathode type. For use as an if or rf amplifier at frequencies up to about 45 Mc. Receiving-tube prototype 6CB6.	✓	✓	✓	✓	✓	✓
7057	Medium-Mu Twin Triode. 9-pin miniature heater-cathode type. For use as an rf amplifier in cascode-type circuits at frequencies up to 200 Mc. Receiving-tube prototype 6BZ7.	✓	✓	✓	✓	✓	✓
7058	High-Mu Twin Triode. 9-pin miniature heater-cathode type. For use in phase-inverter, resistance-coupled amplifier and low-frequency oscillator circuits. Receiving-tube prototype 12AX7.	✓	✓	✓	✓	✓	✓
7059	Medium-Mu Triode, Sharp-Cutoff Pentode. 9-pin miniature heater-cathode type. For use as a combined oscillator and mixer-tube in receivers with if frequencies up to 40 Mc. Receiving-tube prototype 6U8-A.	✓	✓	✓	✓	✓	✓
7060	Medium-Mu Triode, Power Pentode. 9-pin miniature heater-cathode type. For use in rf power-amplifier and frequency multiplier applications at frequencies up to 40 Mc. Receiving-tube prototype 6AU8.	✓	✓	✓	✓	✓	✓
7061	Beam Power Tube. 9-pin miniature heater-cathode type. For use as an af power amplifier. Receiving-tube prototype 12AB5.	✓	✓	✓	✓	✓	✓
7551	Beam Power Tube. 9-pin miniature heater-cathode type. For use as a class C rf amplifier, oscillator, or frequency multiplier at frequencies up to 175 Mc.	✓	—	—	—	✓	—

For key to terminal connections see page 30.



7054



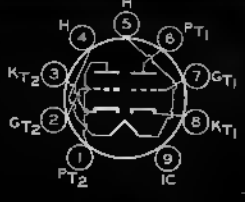
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TUBES FOR MOBILE COMMUNICATIONS EQUIPMENT

Cathode		Maximum Dimensions Inches		Class of Service	Maximum Ratings			Operating Conditions and Characteristics										 Type
					Plate Volts	Plate Dissipation Watts	Grid-No. 2 Input Watts	Plate Supply Volts	Grid-No. 1 Volts(v) or Cathode Resistance Ohms	Grid-No. 2 Supply Volts	Grid-No. 2 Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conduc-tance Micro-mhos	Ampli-fication Factor	Power Output Watts		
Volts	Amp.	Length	Diam.															
TYPES OPERATING FROM 6-CELL STORAGE-BATTERY SYSTEMS																		
12.0 to 15.0	0.275 at 13.5V	2 5/8	0.875	Class A ₁ Amplifier	330	5.0	1.0	250	120	150	3.5	19	100000	11500	—	—	7054	
				RF Power Amplifier Class C Telegraphy	330	5.0	1.0	300	—12v	175	5.5	26	Power Output, 4 Watts at 40 Mc.					
				Frequency Doubler	330	5.0	1.0	300	—25v	175	4.0	20	Power Output, 2.5 Watts at 40 Mc.					
12.0 to 15.0	0.155 at 13.5V	1 3/4	0.75	Half-Wave Rectifier Each Unit	Maximum Ratings, Absolute Values: Peak Inverse Plate Volts, 350 Peak Plate Ma., 60 DC Output Ma., 10 Peak Heater-Cathode Volts, 120												7055	
12.0 to 15.0	0.15 at 13.5V	2 1/8	0.75	Class A ₁ Amplifier	330	2.0	0.5 †	200	180	150	2.8	9.5	600000	6200	—	—	7056	
12.0 to 15.0	0.18 at 13.5V	2 5/16	0.875	Class A ₁ Amplifier Each Unit	275	2.2	—	150	220	—	—	10	5300	6800	36	—	7057	
12.0 to 15.0	0.155 at 13.5V	2 5/16	0.875	Class A ₁ Amplifier Each Unit	330	1.0	—	250	—2v	—	—	1.25	61000	1650	100	—	7058	
12.0 to 15.0	0.195 at 13.5V	2 5/16	0.875	Class A ₁ Amplifier	Triode Unit	300	2.5	—	150	56	—	—	18	4700	8500	40	—	7059
					Pentode Unit	300	2.8	0.5 ♦	250	68	110	3.5	10	400000	5200	—	—	
12.0 to 15.0	0.28 at 13.5V	2 5/16	0.875	Class A ₁ Amplifier	Triode Unit	300	2.5	—	150	150	—	—	9.0	8200	4900	40	—	7059
					Pentode Unit	300	3.0	0.5 ♦	200	82	125	3.4	10	150000	7000	—	—	
12.0 to 15.0	0.21 at 13.5V	2 5/8	0.875	Class A ₁ Amplifier	345	9.0	2.0	200	—10v	200	9.0	35.5	60000	4200	—	3.0 *	7061	
12.0 to 15.0	0.36 at 13.5V	2 5/8	0.875	Class A ₁ Amplifier	—	—	—	250	—18v	250	3.0	40	—	5300	—	—	7551	
				RF Power Amplifier Class C Telegraphy at 175 Mc.	300	10	2	300	—42v	200	3.7	70	—	—	—	8.5		
				Frequency Doubler at 175 Mc.	300	10	2	250	—53v	200	2.6	50	—	—	—	4.5		

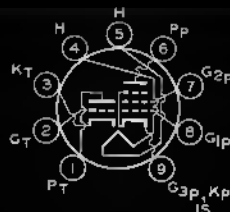
† For Grid-No. 2 Volts up to 155. For Grid-No. 2 Volts between 165 and 330, see JEDEC Input Rating Chart J5-C4-2.

♦ For Grid-No. 2 Volts up to 150. For Grid-No. 2 Volts between 150 and 300, see JEDEC Input Rating Chart J5-C4-2.

* Load for stated power, 5000 ohms.



7059



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