

# RADIOTRONICS

TECHNICAL BULLETINS, 1940

## I N D E X

	Page		Page
A.V.C., Detuning by .. .. .	33	Relay Operation with Phototube .. .. .	5-8
Amplifier, 4.5 watt (A502) .. .. .	71	Safety First .. .. .	48
Amplifier, 9 watt 6V6-G (A501) .. .. .	63	Self Bias—see under Cathode Bias.	
Amplifier, A.F. Power, Calculation of cathode bias resistors for .. .. .	65	Series Filament Operation of 1.4 Volt Valves	49-51
Amplifiers, A.F. Power, Tabulated Data .. .. .	68	Shield Can, Effect of, on Inductance of Coil ..	67
Audio Frequency Amplifiers .. .. .	57-61	Stability of Amplifiers .. .. .	57-61
Audion, de Forest (photograph) .. .. .	10	Stopper, Single Grid, for Parallel Operation ..	43
Balance in Audio Frequency Amplifiers .. .. .	59	Transformer Impedance, Power; the Effect on Rectifiers .. .. .	62
Candlepower Measurements by Phototubes ..	5-8	Transmitting Valves, Australian made .. .. .	31
Cathode Bias Resistors, Calculation of .. .. .	65	Triode Constants, the Calculation of .. .. .	1
Characteristic Chart, Correction to .. .. .	72	Triode Operation of Pentodes and Tetrodes ..	35, 45
Coils for 1.4 Volt Receiver using 1A7-GT .. .. .	28	Valve Import Restrictions .. .. .	61
Coils for Dual Wave 1.4 Volt Receiver using 1A7-GT .. .. .	42	Valve Types, Replacing Imported .. .. .	43
Colour Matching by means of Phototubes ..	5-8	Valves, 1.4 Volt, Operation from Accumulator	29
Constant Current Curves for Rectifiers .. .. .	55	Valves, 1.4 Volt, Series Filament Operation of	49-51
Constants, The calculation of Triode .. .. .	1	Valves, 2 Volt, 90 Volt, Operation of .. .. .	30
Counting by means of Phototubes .. .. .	5-8	Valves, Australian-made, List of .. .. .	21, 44
Detuning by A.V.C. .. .. .	33	Valves, Australian-made, List of Octal-based Types .. .. .	51
Filament Current-Voltage Curve for 1.4 Volt Valves .. .. .	51	Valves, Obsolete Types of .. .. .	24
Fleming Valve (Photograph) .. .. .	10	Valves of Yesterday and To-day .. .. .	10
Frequency Response of Amplifiers .. .. .	57-61	Valves, Transmitting, Australian-made .. .. .	44
Harmonic Distortion in Amplifiers .. .. .	60	Valves, Transmitting, Restriction on Sale of ..	53
Hum in Amplifiers .. .. .	58	KT32/25L6-G, Announcement .. .. .	72
Impedance of Power Transformers; the effect on Rectifiers .. .. .	62	KT66/6L6-G, Announcement .. .. .	72
Inductance of Coil, Effect of Shield Can on ..	67	U52/5U4-G, Announcement .. .. .	72
Light Intensities Measured by Phototube ..	5-8	1A7-GT, Australian Manufacture .. .. .	13
Loudspeaker Damping .. .. .	60-61	Oscillator Grid Current .. .. .	28, 70
Low Level Reproduction .. .. .	34-35	Use in Receiver .. .. .	18-19, 25-28, 37-42
Miniature Valves (1.4 Volt) .. .. .	9	1C6, Oscillator Grid Current .. .. .	70
Octal Socket, Earthing No. 1 Pin; see article entitled "Safety First" .. .. .	48	1C7-G, 90 Volt Operation .. .. .	30
Oscillator Grid Currents, Table of .. .. .	70	Oscillator Grid Current .. .. .	70
Phototube Chart, Reference to .. .. .	72	1D5-G, 90 Volt Operation .. .. .	30
Phototubes, Some special Applications of ..	5-8	Australian Manufacture .. .. .	44
R.M.A. Ratings, New System of .. .. .	11-12	Photograph .. .. .	10
Radiotron Designer's Handbook .. .. .	12, 30	1F5-G, 90 Volt Operation .. .. .	30
Radiotron Equivalent Type Chart .. .. .	51	1G5-G, 90 volt operation .. .. .	30
Radiotron Valve Data Book, Cover for .. .. .	56	Australian manufacture .. .. .	13
Radiotron Valve Data Book, Notes on .. .. .	72	1H5-GT, Photograph .. .. .	10
Ratings, Maximum, New Method for .. .. .	11-12	Use in Receiver .. .. .	18-19, 25-28, 37-42
Ratings, Revised, for individual types ..	16-17, 32-33	1K7-G, 90 Volt Operation .. .. .	30
Receiver, Senior Amateur (notes on) .. .. .	3-4	1L5-G, 90 Volt Operation .. .. .	30
Receiver, 1.4 Volt 5 Valve Dual Wave (RA51)	37-42	1M5-G, 90 Volt Operation .. .. .	30
Receiver, 1.4 Volt 5 Valve (RB51) .. .. .	18-19	Australian Manufacture .. .. .	13
Receiver, 1.4 Volt 5 Valve (RB52) .. .. .	25-28	Photograph .. .. .	10
Receiver, Low Level Reproduction in .. .. .	34-35	1N5-GT, Use in Receiver .. .. .	18-19
Rectifiers, Constant Current Curves for .. .. .	55	1P5-GT, Australian Manufacture .. .. .	13
Rectifiers, Effect of Power Transformer Impedance .. .. .	62	1P5-GT, Characteristics .. .. .	18
		Use in Receiver .. .. .	25-28, 37-42
		Australian Manufacture .. .. .	13
		In 2 Volt Receiver .. .. .	30
		1Q5-GT, Overbiased Operation of .. .. .	1, 2
		Overbiased Operation of (correction)	21
		Photograph .. .. .	10
		Use in Receiver .. .. .	18-19, 25-28, 37-42
		1R5, Announcement .. .. .	12
		Increased Screen Voltage .. .. .	56
		Short Description and Photograph .. .. .	9

	Page		Page		
1S4,	Announcement .. .. .	12	6X5-GT, Announcement .. .. .	36	
	Increased Screen Voltage .. .. .	56	7AP4, Characteristics and Ratings .. .. .	2	
	Short Description and Photograph .. .. .	9	7B5-LT, Announcement .. .. .	36	
1S5,	Announcement .. .. .	12	7B6-LM, Announcement .. .. .	36	
	Short Description and Photograph .. .. .	9	7B8-LM, Announcement .. .. .	36	
1T4,	Announcement .. .. .	12	7C5-LT, Announcement .. .. .	36	
	Increased Screen Voltage .. .. .	56	7C7, Announcement .. .. .	56	
	Short Description and Photograph .. .. .	9	12A6, Announcement .. .. .	64	
2A3,	Replacement for .. .. .	63	12K8, Announcement .. .. .	24	
2X2,	New designation .. .. .	36	12SR7, Announcement .. .. .	24	
3A8-GT,	Announcement .. .. .	36	25L6-G(T), Revised Ratings .. .. .	33	
	Replacement for .. . . .	62	25Z6-G(T), Revised Ratings .. .. .	33	
5U4-G,	Revised Ratings .. .. .	32	45, As replacement for 2A3 .. .. .	63	
5V4-G,	Australian Manufacture .. .. .	12	45, Data as A.F. power amplifier .. .. .	68	
	Revised Ratings .. .. .	17	47, Australian manufacture .. .. .	44	
	The Use of Series Resistors with 54-55, 62, 64	64	70L7-GT, Announcement .. .. .	36	
5W4-GT,	Announcement .. .. .	56	VR75/30, Announcement .. .. .	56	
5Y3-G,	Revised Ratings .. .. .	17	117N7-GT, Announcement .. .. .	56	
	Typical Operating Conditions .. .. .	45	117Z6-GT, Announcement .. .. .	36	
5Z3,	Replacement for .. .. .	62		Modified heater arrangement .. .. .	48
6A7,	Oscillator Grid Current .. .. .	70		Withdrawal .. .. .	36
6A8-G,	Oscillator Grid Current .. .. .	70	801A, Announcement .. .. .	36	
	Revised Ratings .. .. .	16	802, Australian manufacture .. .. .	56	
6AB5/6N5,	Announcement .. .. .	24		Dual ratings, Note on .. .. .	56
6AB7,	New Designation .. .. .	36	804, Dual ratings, Note on .. .. .	48	
6AC7,	New Designation .. .. .	36	807, Revised Ratings and Typical Operat-		
6AD7-G,	Announcement .. .. .	36		ing Conditions, with Photograph 46-47	
6AD7-G,	Increased Voltage Ratings for .. .. .	72	809, Photograph .. .. .	59	
6AE6-G,	Announcement .. .. .	36	810, Dual ratings, Note on .. .. .	56	
6B5,	Announcement .. .. .	12	813, Photograph .. .. .	71	
6B6-G,	Revised Ratings .. .. .	16	825, Announcement .. .. .	56	
6B8-G,	Revised Ratings .. .. .	16, 32		Description and photograph .. .. .	52-53
	Use as power pentode .. .. .	68	827R, Announcement .. .. .	56	
	Use as power triode .. .. .	63, 68		Photograph .. .. .	69
6F6-G,	Revised Ratings .. .. .	16	829, Announcement .. .. .	36	
	Use as power pentode .. .. .	68		Data .. .. .	41
	Use as power triode .. .. .	68	833A, Announcement .. .. .	64	
6G8-G,	Revised Ratings .. .. .	32	880, Announcement .. .. .	56	
6J7-G,	Revised Ratings .. .. .	17	889, Announcement .. .. .	36	
	Use as power pentode .. .. .	68	889R, Announcement .. .. .	56	
	Use as power triode .. .. .	63, 68	893R, Announcement .. .. .	56	
	Use in amplifier .. .. .	63, 71	901, Announcement .. .. .	48	
6J8-G,	Australian manufacture .. .. .	14	909, Production suspended .. .. .	48	
	Data as I.F. Amplifier .. .. .	64	910, Production suspended .. .. .	48	
	Operation characteristics .. .. .	53	917, Applications of .. .. .	5-8	
	Operation, Hints on .. .. .	14	919, Applications of .. .. .	5-8	
	Oscillator grid current .. .. .	70	922, Applications of .. .. .	5-8	
	Revised Ratings .. .. .	32	925, Applications of .. .. .	5-8	
	Special Applications of .. .. .	43	926, Applications of .. .. .	5-8	
6K7-GT,	Australian-made .. .. .	44		Announcement .. .. .	24
6K8-G,	Oscillator grid current .. .. .	70	928, Data and photograph .. .. .	19-20	
	Revised Ratings .. .. .	17	929, Announcement .. .. .	48	
6L6-G,	Revised Ratings .. .. .	32		Data .. .. .	47
6L7-G,	Data as I.F. Amplifier .. .. .	64	991, Announcement .. .. .	12	
	Replacement for .. .. .	64	1603, Australian manufacture .. .. .	44	
6N6-G,	Announcement .. .. .	12		Description .. .. .	45
6N7-G,	Revised Ratings .. .. .	32	1611, Announcement .. .. .	48	
6SR7,	Announcement .. .. .	48	1627, Announcement .. .. .	64	
6U5/6G5,	Revised Ratings .. .. .	32	1628, Announcement .. .. .	24	
6U7-G,	Revised Ratings .. .. .	17		Data and photograph .. .. .	22-23
6V6-G,	As triode modulator or driver .. .. .	9		Outline and terminal connections .. .. .	15
	Calculation of cathode bias resistors		1652, Withdrawal of .. .. .	36	
	for .. .. .	64	1840, Announcement and photograph .. .. .	24	
	Data as A.F. power amplifier .. .. .	68	1847, Announcement .. .. .	56	
	Grid resistor ratings for low screen		1848, Announcement .. .. .	24	
	voltage .. .. .	63	2000, Announcement and data .. .. .	44, 48	
	Low screen voltage operation .. .. .	21	8003, Announcement .. .. .	64	
	Revised Ratings .. .. .	17, 33			
	Triode operation, Data for .. .. .	33, 68			
	Use in 4.5 watt amplifier .. .. .	71			
	Use in 9 watt amplifier .. .. .	63			
6X5-G(T),	Revised Ratings .. .. .	33			