

REFERENCE TABLES

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TABLE OF AUSTRALIAN ANALOGUE TV CHANNELS

Band I		Vision MHz	Sound MHz	Hyper-Band con't		Vision MHz	Sound MHz
Channel	0	46.25	51.75	Channel	S38	422.25	427.75
Channel	1	57.25	62.75	Channel	S39	429.25	434.75
Channel	2	64.25	69.75	Channel	S40	436.25	441.75
				Channel	S41	443.25	448.75
Band II		MHz	MHz	Band IV		MHz	MHz
Channel	3	86.25	91.75	Channel	21	478.25	483.75
Channel	4	95.25	100.75	Channel	22	485.25	490.75
Channel	5	102.25	107.75	Channel	23	492.25	497.75
Channel	5a	138.25	143.75	Channel	24	499.25	504.75
				Channel	25	506.25	511.75
				Channel	26	513.25	518.75
				Channel	27	520.25	525.75
				Channel	28	527.25	532.75
				Channel	29	534.25	539.75
				Channel	30	541.25	546.75
				Channel	31	548.25	553.75
				Channel	32	555.25	560.75
				Channel	33	562.25	567.75
				Channel	34	569.25	574.75
				Channel	35	576.25	581.75
VHF Mid-Band		MHz	MHz	Band V		MHz	MHz
Channel	S3	119.25	124.75	Channel	36	583.25	588.75
Channel	S4	126.25	131.75	Channel	37	590.25	595.75
Channel	S5	133.25	138.75	Channel	38	597.25	602.75
Channel	S6	140.25	145.75	Channel	39	604.25	609.75
Channel	S7	147.25	152.75	Channel	40	611.25	616.75
Channel	S8	154.25	159.75	Channel	41	618.25	623.75
Channel	S9	161.25	166.75	Channel	42	625.25	630.75
Channel	S10	168.25	173.75	Channel	43	632.25	637.75
				Channel	44	639.25	644.75
				Channel	45	646.25	651.75
				Channel	46	653.25	658.75
				Channel	47	660.25	665.75
				Channel	48	667.25	672.75
				Channel	49	674.25	679.75
				Channel	50	681.25	686.75
				Channel	51	688.25	693.75
				Channel	52	695.25	700.75
				Channel	53	702.25	707.75
				Channel	54	709.25	714.75
				Channel	55	716.25	721.75
				Channel	56	723.25	728.75
				Channel	57	730.25	735.75
				Channel	58	737.25	742.75
				Channel	59	744.25	749.75
				Channel	60	751.25	756.75
				Channel	61	758.25	763.75
				Channel	62	765.25	770.75
				Channel	63	772.25	777.75
				Channel	64	779.25	784.75
				Channel	65	786.25	791.75
				Channel	66	793.25	798.75
				Channel	67	800.25	805.75
				Channel	68	807.25	812.75
				Channel	69	814.25	819.75
Band III		MHz	MHz				
Channel	6	175.25	180.75				
Channel	7	182.25	187.75				
Channel	8	189.25	194.75				
Channel	9	196.25	201.75				
Channel	10	209.25	214.75				
Channel	11	216.25	221.75				
Channel	12	224.25	229.75				
Hyper-Band		MHz	MHz				
Channel	S11	231.25	236.75				
Channel	S12	238.25	243.75				
Channel	S13	245.25	250.75				
Channel	S14	252.25	257.75				
Channel	S15	259.25	264.75				
Channel	S16	266.25	271.75				
Channel	S17	273.25	278.75				
Channel	S18	280.25	285.75				
Channel	S19	287.25	292.75				
Channel	S20	294.25	299.75				
Channel	S21	303.25	308.75				
Channel	S22	310.25	315.75				
Channel	S23	317.25	322.75				
Channel	S24	324.25	329.75				
Channel	S25	331.25	336.75				
Channel	S26	338.25	343.75				
Channel	S27	345.25	350.75				
Channel	S28	352.25	357.75				
Channel	S29	359.25	364.75				
Channel	S30	366.25	371.75				
Channel	S31	373.25	378.75				
Channel	S32	380.25	385.75				
Channel	S33	387.25	392.75				
Channel	S34	394.25	399.75				
Channel	S35	401.25	406.75				
Channel	S36	408.25	413.75				
Channel	S37	415.25	420.75				

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TABLE OF AUSTRALIAN DIGITAL & NEW ANALOGUE BAND 3 CHANNELS

Band III		LOWER MHz	UPPER MHz
Channel 6	6	174.00	181.00
Channel 7	7	181.00	188.00
Channel 8	8	188.00	195.00
Channel 9	9	195.00	202.00
Channel 9A	9A	202.00	209.00
Channel 10	10	209.00	216.00
Channel 11	11	216.00	223.00
Channel 12	12	223.00	230.00

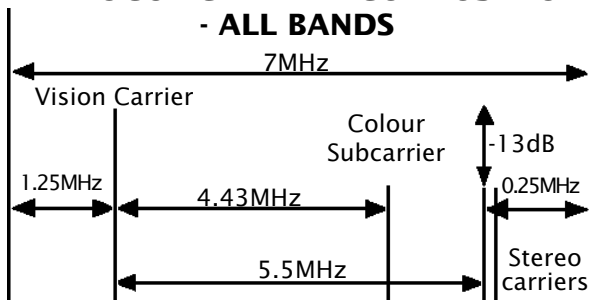
RETURN LOSS - V.S.W.R. TABLE

Return Loss	VSWR	Return Loss	VSWR
2dB	8.71	24dB	1.13
4dB	4.42	26dB	1.11
6dB	3.01	28dB	1.08
8dB	2.32	30dB	1.07
10dB	1.92	32dB	1.05
12dB	1.67	34dB	1.040
14dB	1.50	36dB	1.032
16dB	1.37	38dB	1.026
18dB	1.28	40dB	1.020
20dB	1.22	50dB	1.006
22dB	1.17	60dB	1.002

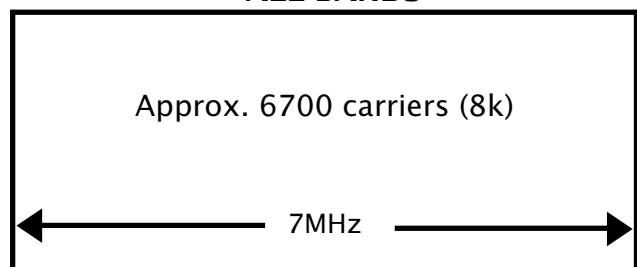
DIGITAL CHANNEL METROPOLITAN SUMMARY

AREA SERVICED	ANALOGUE CHANNEL ASSIGNMENTS/ PROPOSED DIGITAL CHANNEL ASSIGNMENTS						
Sydney	ABN 12	ATN 6	TCN 8	TEN 11	SBS 34	CTV *	Not assigned 29
Kings Cross & Manly/Mosman	ABN 30	ATN 48	TCN 33	TEN 45	SBS 34		29, 35
Newcastle	NBN 36	ABHN 37	SBS 38	NEN 53	NRN 56		51
Wollongong	ABN 54	ATN 57	TCN 36	TEN 37	SBS 38		50, 51
Canberra	CTC 6	ABC 9A	SBS 30	WIN 11	CBN 12		40, 41
Melbourne	ABV 12	HSV 6	GTV 8	ATV 11	SBS 29	CTV *	32, 35
Brisbane	ABQ 12	BTQ 6	QTQ 8	TVQ 11	SBS 36	CTV *	38
Toowoomba	SBS 52	ABQ 55	STQ 58	TNQ 61	RTQ 64		66, 67, 68
Adelaide	ABS 12	SAS 6	NWS 8	ADS 11	SBS 29	CTV *	32, 35, 38
Perth	ABW 12	TVW 6	STW 8	NEW 11	SBS 29	CTV *	32, 35, 38
Hobart	TVT 7	ABD 8	SBS 9A	TNT 10			11, 12
Darwin	ABD 30	NTD 31	SBS 29	TND 32			33, 35, 36, 37, 38, 39

ANALOGUE CHANNEL COMPOSITION - ALL BANDS



DIGITAL TV CHANNEL COMPOSITION - ALL BANDS



174.00MHz to 181.00MHz
Eg. Ch 6

REFERENCE TABLES

dB CONVERSION TABLE

<i>Microvolts (μV)</i>				<i>Millivolts (mV)</i>				<i>Millivolts (mV)</i>			
Voltage	dB μV	dBmV	dBm	Voltage	dB μV	dBmV	dBm	Voltage	dB μV	dBmV	dBm
10.00	20	-40	-89	1.0	60	0	-49	125.9	102	42	-7
11.22	21	-39	-88	1.12	61	1	-48	141.3	103	43	-6
12.59	22	-38	-87	1.26	62	2	-47	158.5	104	44	-5
14.13	23	-37	-86	1.41	63	3	-46	177.9	105	45	-4
15.85	24	-36	-85	1.59	64	4	-45	199.5	106	46	-3
17.78	25	-35	-84	1.78	65	5	-44	223.9	107	47	-2
19.95	26	-34	-83	2.00	66	6	-43	251.2	108	48	-1
22.39	27	-33	-82	2.24	67	7	-42	281.8	109	49	0
25.12	28	-32	-81	2.51	68	8	-41	316.2	110	50	1
28.18	29	-31	-80	2.82	69	9	-40	354.8	111	51	2
31.62	30	-30	-79	3.16	70	10	-39	398.1	112	52	3
35.48	31	-29	-78	3.55	71	11	-38	446.7	113	53	4
39.81	32	-28	-77	3.98	72	12	-37	501.2	114	54	5
44.67	33	-27	-76	4.47	73	13	-36	562.3	115	55	6
50.12	34	-26	-75	5.01	74	14	-35	631.0	116	56	7
56.23	35	-25	-74	5.62	75	15	-34	707.9	117	57	8
63.10	36	-24	-73	6.31	76	16	-33	794.3	118	58	9
70.79	37	-23	-72	7.08	77	17	-32	891.3	119	59	10
79.43	38	-22	-71	7.94	78	18	-31				
89.13	39	-21	-70	8.93	79	19	-30				
100.00	40	-20	-69	10.00	80	20	-29				
112.2	41	-19	-68	11.22	81	21	-28				
125.9	42	-18	-67	12.59	82	22	-27				
141.3	43	-17	-66	14.13	83	23	-26				
158.5	44	-16	-65	15.85	84	24	-25				
177.8	45	-15	-64	17.78	85	25	-24				
199.5	46	-14	-63	19.95	86	26	-23				
223.9	47	-13	-62	22.39	87	27	-22				
251.2	48	-12	-61	25.12	88	28	-21				
281.8	49	-11	-60	28.18	89	29	-20				
316.2	50	-10	-59	31.62	90	30	-19				
354.8	51	-9	-58	35.48	91	31	-18				
398.1	52	-8	-57	39.81	92	32	-17				
446.7	53	-7	-56	44.67	93	33	-16				
501.2	54	-6	-55	50.12	94	34	-15				
562.3	55	-5	-54	56.23	95	35	-14				
631.0	56	-4	-53	63.10	96	36	-13				
707.9	57	-3	-52	70.79	97	37	-12				
794.3	58	-2	-51	79.43	98	38	-11				
891.3	59	-1	-50	89.13	99	39	-10				
1000.00	60	0	-49	100.0	100	40	-9				
				112.2	101	41	-8				
								<i>Volts (V)</i>			
								Voltage	dB μV	dBmV	dBm
								1.00	120	60	11
								1.12	121	61	12
								1.26	122	62	13
								1.41	123	63	14
								1.59	124	64	15
								1.78	125	65	16
								2.00	126	66	17
								2.24	127	67	18
								2.51	128	68	19
								2.82	129	69	20
								3.16	130	70	21
								3.55	131	71	22
								3.98	132	72	23
								4.47	133	73	24
								5.01	134	74	25
								5.62	135	75	26
								6.31	136	76	27
								7.08	137	77	28
								7.94	138	78	29
								8.91	139	79	30
								10.0	140	80	31