Section 6 - Terminal Isolation Documents

System Name: AOL Time Warner of Durham/Chapel Hill

The following tap devices are used in this system:

Manufacturer	Model Number
LINDSEY	LGT
MILLINEUM	MGT 10-1000 MHz
REGAL	RMT - 102W

As specified by the rules copies of the manufacture's specification sheets are attached for each make of tap used in this system.

LINDSAY LGT SERIES

BROAD-BAND MODULAR POWER TAP

PRODUCTION PRELIMINARY SPEC Jan. 24, 96

2 PORT TYPICAL TAP LOSS PROFILE

Nominal Tap Values 2 PORT	Coupler	SPOT FREQUENCIES MHz 5	50	300	450	550	750	1000
4	0	-3.6	-3.4	-3.6	-3.7	-3.8	-4.1	-4.5
8	4	-6.6	-6.7	-6.8	-7.0	-7.2	-7.7	-8.4
11	7	-10.9	-10.7	-10.7	-10.5	-10.6	-11.0	-12.5
14	10	-13.9	-13.6	-13.7	-13.7	-13.8	-14.0	-14.4
17	13	-16.5	-16.5	-16.6	-16.5	-16.5	-16.5	-16.6
20	16	-19.5	-19.8	-19.7	-19.7	-19.8	-20.2	-20.8
23	19	-22.8	-22.7	-22.7	-22.6	-22.7	-23.0	-23.5
26	22	-26.3	-25.7	-25.8	-25.7	-25.8	-26.3	-27.3
29	25	-28.8	-28.5	-28.5	-28.4	-28.5	-28.9	-30.0
32	28	-31.8	-31.4	-31.5	-31.3	-31.4	-31.8	-33.0
Tap Loss tolerance		+/- 0.5	+/- 0.3	+/- 0.4	+/- 0.5	+/- 0.6	+/- 0.7	+/- 1.0
Tap Return Loss min	dB	18	20	20	20	20	18	18
Tap to Tap Isolation	dB	23	23	23	23	23	23	23

4 PORT TYPICAL TAP LOSS PROFILE

Nominal Tap Values PORT	Coupler	SPOT FREQUENCIES MHz 5	50	300	450	550	750	1000
8	0	-6.9	-6.7	-6.9	-7.1	-7.4	-8.0	-8.7
11	4	-9.9	-9.9	-10.2	-10.4	-10.7	-11.5	-12.7
14	7	-14.3	-14.0	-14.1	-14.0	-14.1	-14.5	-16.1
17	10	-17.0	-16.8	-17.0	-17.1	-17.3	-18.0	-18.6
20	13	-19.7	-19.7	-19.8	-19.8	-20.0	-20.5	-21.2
23	16	-22.8	-22.9	-23.0	-23.0	-23.2	-23.9	-24.2
26	19	-25.9	-25.9	-26.0	-26.0	-26.3	27.0	-28.3
29	22	-28.9	-28.9	-29.0	-29.0	-29.3	-30.1	-31.1
32	25	-31.9	-31.8	-31.8	-31.7	-31.9	-32.9	-34.5
35	28	-34.8	-34.7	-34.3	-34.6	-34.8	-35.7	-37.5
Tap Loss tolerance		+/- 0.6	+/- 0.4	+/- 0.5	+/- 0.6	+/- 0.8	+/- 1.0	+/- 1.5
Tap Return Loss min	dB	18	20	20	20	20	20	20
Tap to Tap Isolation	dB	23	23	23	23	23	23	23

8 PORT TYPICAL TAP LOSS PROFILE

Nominal Tap Values 8 PORT	Coupler	SPOT FREQUENCIES MHz 5	50	300	450	550	750	1000
11	0	-10.1	-9.9	-10.3	-10.5	-10.6	-11.3	12.4
14	4	-13.3	-13.2	-13.5	-13.8	-14.2	14.9	-16.3
17	7	-17.8	-17.2	-17.4	-17.5	-17.5	-18.0	-19.9
20	10	-20.6	-20.0	-20.5	-20.5	-20.7	-21.2	-22.3
23	13	-23.2	-22.9	-23.3	-23.3	-23.3	-23.6	-24.5
26	16	-26.3	-26.1	-26.3	-26.4	-26.6	-26.9	-27.9
29	19	-29.3	-29.1	-29.3	-29.5	-29.6	-30.3	-31.5
32	22	-32.6	-32.2	-32.5	-32.5	-32.7	-33.3	-34.7
35	25	-35.5	-35.2	-35.5	-35.5	-35.8	-36.4	-37.8
Tap Loss tolerance		+/- 0.7	+/- 0.5	+/- 0.6	+/- 0.8	+/- 1.0	+/- 1.5	+/- 2.0

LINDSAY LGT SERIES

BROAD-BAND MODULAR POWER TAP

PRODUCTION PRELIMINARY SPEC

Jan. 24, 96

2 PORT TYPICAL TAP LOSS PROFILE

Nominal Tap Values 2 PORT	Coupler	SPOT FREQUENCIES MHz 5	50	300	450	550	750	1000
4	0	-3.6	-3.4	-3.6	-3.7	-3.8	-4.1	-4.5
8	4	-6.6	-6.7	-6.8	-7.0	-7.2	-7.7	-8.4
11	7	-10.9	-10.7	-10.7	-10.5	-10.6	-11.0	-12.5
14	10	-13.9	-13.6	-13.7	-13.7	-13.8	-14.0	-14.4
17	13	-16.5	-16.5	-16.6	-16.5	-16.5	-16.9	-16.6
20	16	-19.5	-19.8	-19.7	-19.7	-19.8	-20.2	-20.8
23	19	-22.8	-22.7	-22.7	-22.6	-22.7	-23.0	-23.5
26	22	-26.3	-25.7	-25.8	-25.7	-25.8	-26.3	-27.3
29	25	-28.8	-28.5	-28.5	-28.4	-28.5	-28.9	-30.0
32	28	-31.8	-31.4	-31.5	-31.3	-31.4	-31.8	-33.0
Tap Loss tolerance		+/- 0.5	+/- 0.3	+/- 0.4	+/- 0.5	+/- 0.6	+/- 0.7	+/- 1.0
Tap Return Loss min	dB	18	20	20	20	20	18	18
Tap to Tap Isolation	dB	23	23	23	23	23	23	23

4 PORT TYPICAL TAP LOSS PROFILE

Nominal Tap Values PORT	Coupler	SPOT FREQUENCIES MHz 5	50	300	450	550	750	1000
8	0	-6.9	-6.7	-6.9	-7.1	-7.4	-8.0	-8.7
11	4	-9.9	-9.9	-10.2	-10.4	-10.7	-11.5	-12.7
14	7	-14.3	-14.0	-14.1	-14.0	-14.1	-14.8	-16.1
17	10	-17.0	-16.8	-17.0	-17.1	-17.3	-18.0	-18.6
20	13	-19.7	-19.7	-19.8	-19.8	-20.0	-20.9	-21.2
23	16	-22.8	-22.9	-23.0	-23.0	-23.2	-23.9	-24.2
26	19	-25.9	-25.9	-26.0	-26.0	-26.3	27.0	-28.3
29	22	-28.9	-28.9	-29.0	-29.0	-29.3	-30.1	-31.1
32	25	-31.9	-31.8	-31.8	-31.7	-31.9	-32.9	-34.5
35	28	-34.8	-34.7	-34.8	-34.6	-34.8	-35.7	-37.5
Tap Loss tolerance		+/- 0.6	+/- 0.4	+/- 0.5	+/- 0.6	+/- 0.8	+/- 1.0	+/- 1.5
Tap Return Loss min	dB	18	20	20	20	20	20	20
Tap to Tap Isolation	dB	23	23	23	23	23	23	23

8 PORT TYPICAL TAP LOSS PROFILE

Nominal Tap Values 8 PORT	Coupler	SPOT FREQUENCIES MHz 5	50	300	450	550	750	1000
11	0	-10.1	-9.9	-10.3	-10.5	-10.8	-11.3	12.4
14	4	-13.3	-13.2	-13.5	-13.8	-14.2	14.9	-16.3
17	7	-17.8	-17.2	-17.4	-17.5	-17.5	-18.0	-19.9
20	10	-20.6	-20.0	-20.5	-20.5	-20.7	-21.2	-22.3
23	13	-23.2	-22.9	-23.3	-23.3	-23.3	-23.6	-24.5
26	16	-26.3	-26.1	-26.3	-26.4	-26.6	-26.9	-27.9
29	19	-29.3	-29.1	-29.3	-29.5	-29.6	-30.3	-31.5
32	22	-32.6	-32.2	-32.5	-32.5	-32.7	-33.3	-34.7
35	25	-35.5	-35.2	-35.5	-35.5	-35.8	-36.4	-37.8
Tap Loss tolerance		+/- 0.7	+/- 0.5	+/- 0.6	+/- 0.8	+/- 1.0	+/- 1.5	+/- 2.0

MILENIUM Two-Way Multi-tap

Model : MGT 10-1000 MHz

ypical necification	Freq. (MHz)	2204 Nom	2204 (+/-)	2208 Nom	2208 (+/-)	2211 Nom	2211 (+/-)	2214 Nom	2214 (+/-)	2217 Nom	2217 (+/-)	2220 Nom	2220 (+/-)	2223 Nom	2223 (+/-)	2226 Nom	2226 (+/-)	2229 Nom	2229 (+/-)
Loss*	10	3.3	0.1	7.6	0.1	10.9	0.1	13.6	0.1	15.8	0.1	18.3	0.3	21.1	0.1	24.1	0.1	27.2	0.3
	30	3.3	0.1	7.5	0.1	11.0	0.1	15.1	0.1	17.4	0.1	20.0	0.1	22.9	0.1	25.9	0.1	28.7	0.1
	50	3.3	0.1	7.5	0.1	11.0	0.1	15.1	0.1	17.4	0.1	20.0	0.1	22.9	0.1	25.9	0.1	28.8	0.1
	100	3.6	0.1	8.0	0.1	11.2	0.1	15.0	0.1	17.4	0.1	19.9	0.1	22.8	0.1	25.8	0.1	28.4	0.1
	330	3.6	0.1	8.0	0.1	11.2	0.1	15.0	0.1	17.5	0.1	19.9	0.1	22.8	0.1	25.5	0.1	28.3	0.3
	450	3.7	0.1	8.0	0.1	11.1	0.3	15.0	0.1	17.5	0.3	19.9	0.1	22.6	0.3	25.8	0.3	28.3	0.3
	550	3.7	0.1	8.0	0.1	11.0	0.3	14.9	0.3	17.5	0.3	19.9	0.3	22.5	0.3	25.6	0.3	28.3	0.3
	600	3.8	0.1	8.1	0.3	10.8	0.3	14.9	0.3	17.5	0.3	19.9	0.3	22.6	0.3	25.6	0.4	28.2	0.4
	750	3.9	0.3	8.8	0.3	10.7	0.4	14.9	0.4	17.6	0.6	20.0	0.4	22.7	0.4	25.8	0.6	28.4	0.6
	860	4.2	0.3	9.1	0.4	10.7	0.4	14.9	0.6	17.7	0.7	20.3	0.8	23.0	0.6	26.4	0.7	29.0	0.9
	1000	4.8	0.4	9.8	0.6	10.9	0.8	15.1	0.9	17.7	0.9	20.8	0.7	23.7	1.0	26.9	1.0	29.9	1.2
Insertion	10			2.9		1.4		1.0		0.9		0.7		0.4		0.4		0.4	
Loss*	30			2.9		1.4		0.8		0.8		0.7		0.4		0.4		0.4	
(dB)	50			2.9		1.4		0.8		0.8		0.7		0.4		0.4		0.4	
	100			3.3		1.8		1.0		0.9		0.8		0.4		0.5		0.5	
	330			3.4		2.0		1.0		1.0		0.8		0.6		0.6		0.6	
	450			3.4		2.0		1.0		1.0		0.8		0.6		0.6		0.6	
	550			3.4		2.0		1.1		1.0		0.9		0.6		0.6		0.6	
	600			3.6		2.2		1.2		1.1		0.9		0.7		0.7		0.7	
	750			3.7		2.6		1.3		1.2		1.0		0.8		0.8		0.8	
	860			3.8		2.9		1.5		1.3		1.1		0.9		0.9		0.9	
	1000			4.1		3.7		2.0		1.4		1.2		1.1		1.0		1.0	
lation	10-29			20		20		20		24		29		30		34		34	
to Out	30-749			22		24		26		30		33		36		38		40	
n)	750-899			20		22		25		28		31		34		36		38	
	900-1000			20		22		24		28		31		34		36		38	
solation	10-29	20		20		20		20		20		20		20		20		20	
ap to Tap	30-449	25		25		25		25		25		25		25		25		25	
lB min)	450-749	23		23		23		23		23		23		23		23		23	
	750-1000	20		20		20		20		20		20		20		20		20	
eturn Loss	10-29	17		17		17		17		17		17		17		17		17	
and Out	30-599	18		18		18		18		18		18		18		18		18	
lB min)	600-899	17		17		17		17		17		17		17		17		17	
	900-1000	16		16		16		16		16		16		16		16		16	
eturn Loss	10-29	16		16		16		16		16		16		16		16		16	
ap	30-599	18		18		18		18		18		18		18		18		18	
.B min)	600-899	17		17		17		17		17		17		17		17		17	
	900-1000	16		16		16		16		16		16		16		16		16	
um Mod.	10-49			-64		-64		-70		-70		-70		-70		-70		-70	
10 Amps,	50-599			-70		-70		-70		-70		-70		-70		-70		-70	
B min)	600-749			-64		-64		-70		-70		-70		-70		-70		-70	
	750-1000			-60		-60		-70		-70		-70		-70		-70		-70	
MI (dB min)	10-1000	-105.0		-105.0		-105.0		-105.0		-105.0		-105.0		-105.0		-105.0		-105.0	
s max)	10-1000	0.35		0.35		0.35		0.35		0.35		0.35		0.35		0.35		0.35	
wer Rating		12 Amps, 60 to 90 Vac																	

MILENIUM Four-Way Multi-tap
Model : MGT 10-1000 MHz

Typical Specification	Freq. (MHz)	2408		2411		2414		2417		2420		2423		2426		2429	
		Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)
Tap Loss*	10	7.3	0.7	10.3	0.1	14.3	0.1	15.8	0.3	19.4	0.3	22.0	0.4	24.8	0.3	27.7	0.3
(dB)	30	7.2	0.6	10.1	0.1	14.4	0.1	17.4	0.1	20.9	0.1	23.4	0.3	26.1	0.3	29.2	0.1
	50	7.1	0.6	10.1	0.1	14.4	0.1	17.6	0.1	20.9	0.1	23.5	0.3	26.1	0.3	29.3	0.1
	100	7.4	0.6	10.7	0.3	14.8	0.3	17.6	0.3	21.0	0.3	23.4	0.3	25.8	0.3	29.0	0.4
	330	7.4	0.6	10.6	0.3	14.8	0.3	17.6	0.3	21.0	0.3	23.3	0.3	25.8	0.4	29.1	0.4
	450	7.5	0.6	10.6	0.3	14.7	0.4	17.6	0.4	21.0	0.3	23.3	0.3	25.9	0.4	29.1	0.4
	550	7.6	0.6	10.6	0.3	14.6	0.6	17.5	0.4	21.0	0.3	23.3	0.3	25.9	0.4	29.1	0.4
	600	7.7	0.6	10.7	0.4	14.8	0.6	17.3	0.7	21.0	0.6	23.3	0.4	25.9	0.7	29.3	0.9
	750	7.9	0.6	11.1	0.8	14.5	0.7	16.9	0.9	20.6	0.9	23.0	0.6	25.7	0.9	29.1	1.0
	860	8.1	0.7	11.6	0.9	14.4	0.7	16.6	1.2	20.3	0.9	22.7	0.7	25.3	1.0	28.8	1.0
	1000	8.8	1.0	12.5	1.2	15.0	1.2	17.4	1.9	20.2	1.2	22.5	1.2	26.1	1.4	29.5	1.6
Insertion Loss* (dB)	10			3.5		1.5		1.0		0.9		0.7		0.4		0.4	
	30			3.5		1.4		0.8		0.8		0.7		0.4		0.4	
	50			3.5		1.4		0.8		0.8		0.7		0.4		0.4	
	100			3.9		1.8		1.0		1.0		0.8		0.5		0.5	
	330			4.1		2.0		1.1		1.0		0.8		0.5		0.5	
	450			4.2		2.0		1.1		1.0		0.8		0.6		0.5	
	550			4.3		2.0		1.1		1.0		0.9		0.6		0.6	
	600			4.6		2.2		1.2		1.1		0.9		0.7		0.7	
	750			4.8		2.6		1.4		1.2		1.0		0.8		0.8	
	860			4.9		2.9		1.7		1.3		1.1		0.9		0.9	
	1000			5.1		3.7		2.2		1.4		1.2		1.0		1.0	
olation ip to Out min)	10-29			20		21		22		27		30		34		34	
	30-749			24		27		30		33		36		38		40	
	750-899			22		25		28		31		34		36		38	
	900-1000			22		25		28		31		34		36		38	
Isolation Tap to Tap (dB min)	10-29	20		20		20		20		20		20		20		20	
	30-449	25		25		25		25		25		25		25		25	
	450-749	23		23		23		23		23		23		23		23	
	750-1000	20		20		20		20		20		20		20		20	
Return Loss In and Out (dB min)	10-29	17		17		17		17		17		17		17		17	
	30-599	18		18		18		18		18		18		18		18	
	600-899	17		17		17		17		17		17		17		17	
	900-1000	16		16		16		16		16		16		16		16	
Return Loss Tap (dB min)	10-29	18		16		18		18		16		16		18		16	
	30-599	18		18		18		18		18		18		18		18	
	600-899	17		17		17		17		17		17		17		17	
	900-1000	16		16		16		16		16		16		16		16	
Hum Mod. at 10 Amps. (dB min)	10-49			-64		-64		-70		-70		-70		-70		-70	
	50-599			-70		-70		-70		-70		-70		-70		-70	
	600-749			-64		-64		-70		-70		-70		-70		-70	
	750-1000			-60		-60		-70		-70		-70		-70		-70	
EMI (dB min)	10-1000	-105		-105		-105		-105		-105		-105		-105		-105	
ess 3 max)	10-1000	0.35		0.35		0.35		0.35		0.35		0.35		0.35		0.35	
Power Rating		12 Amps, 60 to 90 Vac															

MILENIUM Eight-Way Multi-tap

Model : MGT 10-1000 MHz

Typical Specification	Freq. (MHz)	2812		2815		2818		2821		2824		2827		2830	
		Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)
ap Loss*	10	10.6	0.3	13.8	0.1	17.6	0.4	20.0	0.4	22.3	0.4	25.2	0.3	28.8	0.4
B)	30	10.5	0.3	13.7	0.1	17.8	0.3	20.9	0.3	24.0	0.3	26.6	0.3	30.2	0.3
	50	10.5	0.1	13.6	0.1	17.8	0.3	20.9	0.3	24.1	0.3	26.6	0.3	30.2	0.3
	100	10.9	0.3	14.3	0.4	18.1	0.6	21.0	0.6	24.1	0.6	26.6	0.6	30.0	1.0
	330	11.1	0.4	14.3	0.6	18.2	0.6	21.1	0.6	24.2	0.7	26.6	0.6	30.0	1.2
	450	11.1	0.4	14.3	0.6	18.1	0.6	21.2	0.7	24.2	0.7	26.8	0.7	30.0	1.2
	550	11.2	0.4	14.3	0.7	18.0	0.6	21.2	0.7	24.3	0.9	26.5	0.9	29.9	1.2
	600	11.3	0.7	14.5	0.7	17.7	0.9	21.3	0.9	24.3	0.9	26.6	1.2	29.8	1.2
	750	11.7	0.9	15.2	0.9	17.8	1.3	21.2	1.4	24.2	1.5	26.7	1.5	29.7	1.5
	860	12.0	1.0	15.8	1.2	17.8	1.4	21.1	1.5	24.1	1.5	26.8	1.5	29.6	1.5
	1000	12.7	1.3	17.2	1.9	18.8	1.9	21.6	2.2	24.8	1.9	27.9	2.1	30.7	1.9
Insertion Loss* (dB)	10			3.4		1.5		1.1		1.0		0.7		0.4	
	30			3.4		1.4		1.0		0.8		0.7		0.4	
	50			3.5		1.4		1.0		0.8		0.6		0.4	
	100			3.9		1.8		1.1		1.0		0.8		0.5	
	330			4.0		2.0		1.1		1.0		0.8		0.6	
	450			4.1		2.1		1.2		1.0		0.8		0.6	
	550			4.2		2.2		1.2		1.1		0.9		0.6	
	600			4.6		2.3		1.2		1.1		0.9		0.7	
	750			4.7		2.7		1.4		1.2		1.0		0.8	
	860			4.9		3.0		1.6		1.4		1.2		1.0	
	1000			5.0		3.9		2.0		1.5		1.3		1.1	
olation n to Out in)	10-29			21		24		27		30		34		34	
	30-749			26		30		32		34		38		40	
	750-899			25		28		30		33		36		38	
	900-1000			24		28		28		33		34		36	
Isolation Tap to Tap (dB min)	10-29	20		20		20		20		20		20		20	
	30-449	25		25		25		25		25		25		25	
	450-749	23		23		23		23		23		23		23	
	750-1000	20		20		20		20		20		20		20	
Return Loss In and Out (dB min)	10-29	17		17		17		17		17		17		17	
	30-599	18		18		18		18		18		18		18	
	600-899	17		17		17		17		17		17		17	
	900-1000	16		16		16		16		16		16		16	
Return Loss Tap (dB min)	10-29	16		16		16		16		16		16		16	
	30-599	18		18		18		18		18		18		18	
	600-899	17		17		17		17		17		17		17	
	900-1000	16		16		16		16		16		16		16	
Hum Mod. at 10 Amps. dB min)	10-49			-64		-64		-70		-70		-70		-70	
	50-599			-70		-70		-70		-70		-70		-70	
	600-749			-64		-64		-70		-70		-70		-70	
	750-1000			-60		-60		-70		-70		-70		-70	
EMI (dB min)	10-1000	-105		-105		-105		-105		-105		-105		-105	
ss max)	10-1000	0.35		0.35		0.35		0.35		0.35		0.35		0.35	
Power Rating		12 Amps, 60 to 90 Vac													

pical (rc1.44)

Specifications are subject to change without notice

MILENIUM Two-Way Multi-tap

Model : MGT 10-1000 MHz

ypical Specification	Freq. (MHz)	2204		2208		2211		2214		2217		2220		2223		2226		2229	
		Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)	Nom	(+/-)
·o Loss*	10	3.3	0.1	7.6	0.1	10.9	0.1	13.8	0.1	15.8	0.1	18.3	0.3	21.1	0.1	24.1	0.1	27.2	0.3
)	30	3.3	0.1	7.5	0.1	11.0	0.1	15.1	0.1	17.4	0.1	20.0	0.1	22.9	0.1	25.9	0.1	28.7	0.1
	50	3.3	0.1	7.5	0.1	11.0	0.1	15.1	0.1	17.4	0.1	20.0	0.1	22.9	0.1	25.9	0.1	28.8	0.1
	100	3.6	0.1	8.0	0.1	11.2	0.1	15.0	0.1	17.4	0.1	19.9	0.1	22.6	0.1	25.8	0.1	28.4	0.1
	330	3.8	0.1	8.0	0.1	11.2	0.1	15.0	0.1	17.5	0.1	19.9	0.1	22.6	0.1	25.5	0.1	28.3	0.3
	450	3.7	0.1	8.0	0.1	11.1	0.3	15.0	0.1	17.5	0.3	19.9	0.1	22.6	0.3	25.6	0.3	28.3	0.3
	550	3.7	0.1	8.0	0.1	11.0	0.3	14.9	0.3	17.5	0.3	19.9	0.3	22.5	0.3	25.6	0.3	28.3	0.3
	600	3.8	0.1	8.1	0.3	10.8	0.3	14.9	0.3	17.5	0.3	19.9	0.3	22.8	0.3	25.6	0.4	28.2	0.4
	750	3.9	0.3	8.8	0.3	10.7	0.4	14.9	0.4	17.8	0.6	20.0	0.4	22.7	0.4	25.8	0.6	28.4	0.6
	860	4.2	0.3	9.1	0.4	10.7	0.4	14.9	0.6	17.7	0.7	20.3	0.6	23.0	0.6	26.4	0.7	29.0	0.9
	1000	4.6	0.4	9.8	0.6	10.9	0.6	15.1	0.9	17.7	0.9	20.6	0.7	23.7	1.0	26.9	1.0	29.9	1.2
Insertion Loss* (dB)	10			2.9		1.4		1.0		0.9		0.7		0.4		0.4		0.4	
	30			2.9		1.4		0.8		0.8		0.7		0.4		0.4		0.4	
	50			2.9		1.4		0.8		0.8		0.7		0.4		0.4		0.4	
	100			3.3		1.8		1.0		0.9		0.8		0.4		0.5		0.5	
	330			3.4		2.0		1.0		1.0		0.8		0.6		0.6		0.6	
	450			3.4		2.0		1.0		1.0		0.8		0.6		0.6		0.6	
	550			3.4		2.0		1.1		1.0		0.9		0.6		0.6		0.6	
	600			3.6		2.2		1.2		1.1		0.9		0.7		0.7		0.7	
	750			3.7		2.6		1.3		1.2		1.0		0.8		0.8		0.8	
	860			3.8		2.9		1.5		1.3		1.1		0.9		0.9		0.9	
	1000			4.1		3.7		2.0		1.4		1.2		1.1		1.0		1.0	
·lation ' to Out ·in)	10-29			20		20		20		24		29		30		34		34	
	30-749			22		24		26		30		33		36		38		40	
	750-899			20		22		25		28		31		34		38		38	
	900-1000			20		22		24		28		31		34		36		38	
Isolation Tap to Tap (dB min)	10-29	20		20		20		20		20		20		20		20		20	
	30-449	25		25		25		25		25		25		25		25		25	
	450-749	23		23		23		23		23		23		23		23		23	
	750-1000	20		20		20		20		20		20		20		20		20	
Return Loss n and Out dB min)	10-29	17		17		17		17		17		17		17		17		17	
	30-599	18		18		18		18		18		18		18		18		18	
	600-899	17		17		17		17		17		17		17		17		17	
	900-1000	16		16		16		16		16		16		16		16		16	
Return Loss ·ap dB min)	10-29	18		18		16		16		16		16		16		16		16	
	30-599	18		18		18		18		18		18		18		18		18	
	600-899	17		17		17		17		17		17		17		17		17	
	900-1000	16		16		16		16		16		16		16		16		16	
lum Mod. t 10 Amps, dB min)	10-49			-64		-64		-70		-70		-70		-70		-70		-70	
	50-599			-70		-70		-70		-70		-70		-70		-70		-70	
	600-749			-64		-64		-70		-70		-70		-70		-70		-70	
	750-1000			-60		-60		-70		-70		-70		-70		-70		-70	
MI (dB min)	10-1000	-105.0		-105.0		-105.0		-105.0		-105.0		-105.0		-105.0		-105.0		-105.0	
·s max)	10-1000	0.35		0.35		0.35		0.35		0.35		0.35		0.35		0.35		0.35	
ower Rating		12 Amps, 60 to 90 Vac																	

deal (ec1.44)

Nominal Performance Specifications

RMT102-	4.0	8.0	11.0	14.0	17.0	20.0	23.0	26.0	29.0	32.0	35.0
Nominal Tap Value (dB)											
5 MHz	3.40	7.20	10.34	14.60	16.50	20.60	22.50	25.60	28.50	31.60	34.70
50 MHz	3.40	7.20	10.70	14.60	16.50	20.60	22.60	25.70	28.50	31.60	34.70
300 MHz	3.50	7.20	10.78	14.40	16.50	20.60	22.60	25.80	28.70	31.90	35.20
400 MHz	3.60	7.20	10.70	14.20	16.60	20.60	22.60	25.90	28.90	32.30	35.30
500 MHz	3.50	7.40	10.68	14.20	16.70	21.80	22.60	26.10	28.90	32.60	35.70
600 MHz	3.60	7.40	10.74	13.80	16.70	21.00	22.90	26.10	29.10	32.60	35.70
700 MHz	3.70	7.60	10.72	13.60	16.80	21.10	22.90	26.00	29.10	32.60	35.60
800 MHz	3.80	7.60	10.76	13.20	16.80	21.20	22.80	25.80	28.90	32.50	35.50
900 MHz	3.80	7.90	10.80	12.80	16.80	21.10	23.00	25.50	28.60	32.50	35.30
1000 MHz	4.20	8.60	11.24	13.00	17.30	21.40	23.80	25.50	28.60	32.40	35.40
Nominal Insertion Loss (in/out) (dB)											
5 MHz	T	3.40	1.60	1.00	0.70	0.40	0.40	0.40	0.40	0.40	0.40
50 MHz	T	3.40	1.40	0.90	0.70	0.40	0.30	0.30	0.30	0.30	0.30
300 MHz	T	3.50	1.60	1.00	0.70	0.40	0.40	0.50	0.50	0.50	0.50
400 MHz	T	3.60	1.60	1.10	0.70	0.40	0.40	0.50	0.50	0.50	0.50
500 MHz	T	3.80	1.80	1.30	1.00	0.60	0.70	0.70	0.70	0.70	0.70
600 MHz	T	4.00	2.00	1.20	0.90	0.80	0.70	0.70	0.70	0.70	0.70
700 MHz	T	4.30	2.30	1.50	1.30	0.90	0.80	0.80	0.70	0.80	0.80
800 MHz	T	4.30	2.50	2.00	1.30	1.00	0.90	0.90	0.80	0.90	0.90
900 MHz	T	4.40	2.60	2.10	1.40	1.10	1.10	1.10	1.00	1.10	1.10
1000 MHz	T	4.50	3.00	2.50	1.50	1.40	1.10	1.20	1.10	1.20	1.40

Recommended Torque	
Housing Closure Screws	20-30 in. lb.
Center Conductor Seizure	15-20 in. lb.
Port Plugs	10-15 ft. lb.
Connector Pull-Out	100 lb. minimum

Ordering Information on Pages H57-H59

Specifications subject to change without notice

1GHz Two Way Wide Body Tap

REGAL

Frequency (MHz)	5-10	10-20	20-400	400-500	500-600	600-900	900-1000
Isolation (dB minimum) Tap to Tap	18	23	25	25	23	21	19
Return Loss (dB minimum)	15	18	20	18	17	16	15
Tap Loss Tolerance							
4.0 to 29.0 dB	±1.0	±1.0	±1.0	±1.0	±1.3	±1.7	±2.0
32.0 to 35.0 dB	±1.0	±1.0	±1.0	±1.0	±1.5	±2.0	±2.3
EMI Shielding (dB minimum)	100	100	100	100	100	100	100
Hum Modulation 7 Amps (dB minimum)	65	65	65	65	65	65	65
Power Rating	7 Amps AC/DC, 60-90 Volts, 1-60 Hz						

Worst Case Performance Specifications

RMT102-	4.0	8.0	11.0	14.0	17.0	20.0	23.0	26.0	29.0	32.0	35.0
Code	LIGHT GREEN	BLACK	GOLD	BLUE	NAVY	ORANGE	TAN	ORANGE-RED	PURPLE	RED	GREEN
tion Loss (dB maximum)											
5 MHz	T	3.5	1.7	1.2	0.7	0.5	0.4	0.4	0.4	0.4	0.4
50 MHz	T	3.5	1.6	1.1	0.7	0.5	0.3	0.3	0.3	0.3	0.3
300 MHz	T	3.7	1.8	1.2	0.8	0.6	0.5	0.5	0.5	0.5	0.5
400 MHz	T	3.8	1.9	1.4	1.0	0.6	0.6	0.6	0.6	0.6	0.6
500 MHz	T	3.9	2.1	1.5	1.0	0.7	0.7	0.7	0.7	0.7	0.7
600 MHz	T	4.2	2.2	1.6	1.1	0.7	0.7	0.7	0.7	0.7	0.7
700 MHz	T	4.5	2.4	1.8	1.3	0.9	0.8	0.8	0.8	0.8	0.8
800 MHz	T	4.6	2.6	2.1	1.4	1.0	0.9	0.9	0.9	0.9	0.9
900 MHz	T	4.7	2.8	2.4	1.5	1.1	1.1	1.1	1.1	1.1	1.1
1000 MHz	T	4.8	3.3	2.9	1.9	1.4	1.4	1.4	1.4	1.4	1.4
Out-To-Tap Isolation (dB minimum)											
5 MHz	T	18	18	20	30	30	35	38	40	42	45
50 MHz	T	25	25	20	30	30	37	40	42	43	46
300 MHz	T	25	25	23	30	30	35	35	42	44	46
400 MHz	T	23	23	21	30	30	33	34	42	44	46
500 MHz	T	22	22	20	30	30	33	33	40	42	44
900 MHz	T	21	21	20	30	27	32	30	39	41	43
	T	19	19	19	28	25	28	26	30	32	32
Hz	T	18	18	18	25	23	27	25	27	31	32

Specifications subject to change without notice

1 GHz Two Way Wide Body Tap
continued

REGAL

ninal Performance Specifications

RMT102-	4.0	8.0	11.0	14.0	17.0	20.0	23.0	26.0	29.0	32.0	35.0
Nominal Tap Value (dB)											
5 MHz	3.40	7.20	10.34	14.60	16.50	20.60	22.50	25.60	28.50	31.60	34.70
50 MHz	3.40	7.20	10.70	14.60	16.50	20.60	22.60	25.70	28.50	31.60	34.70
300 MHz	3.50	7.20	10.78	14.40	16.50	20.60	22.60	25.80	28.70	31.90	35.20
400 MHz	3.60	7.20	10.70	14.20	16.60	20.60	22.60	25.90	28.90	32.30	35.30
500 MHz	3.50	7.40	10.68	14.20	16.70	21.80	22.60	26.10	28.90	32.60	35.70
600 MHz	3.60	7.40	10.74	13.80	16.70	21.00	22.90	26.10	29.10	32.60	35.70
700 MHz	3.70	7.60	10.72	13.60	16.80	21.10	22.90	26.00	29.10	32.60	35.60
800 MHz	3.80	7.60	10.76	13.20	16.80	21.20	22.80	25.80	28.90	32.50	35.50
900 MHz	3.80	7.90	10.80	12.80	16.80	21.10	23.00	25.50	28.60	32.50	35.30
1000 MHz	4.20	8.60	11.24	13.00	17.20	21.40	23.80	25.50	28.60	32.40	35.40
Nominal Insertion Loss (in/out) (dB)											
5 MHz	T	3.40	1.60	1.00	0.70	0.40	0.40	0.40	0.40	0.40	0.40
50 MHz	T	3.40	1.40	0.90	0.70	0.40	0.30	0.30	0.30	0.30	0.30
300 MHz	T	3.50	1.60	1.00	0.70	0.40	0.40	0.50	0.50	0.50	0.50
400 MHz	T	3.60	1.60	1.10	0.70	0.40	0.40	0.50	0.50	0.50	0.50
700 MHz	T	3.80	1.80	1.20	1.00	0.60	0.70	0.70	0.70	0.70	0.70
Hz	T	4.00	2.00	1.20	0.90	0.80	0.70	0.70	0.70	0.70	0.70
MHz	T	4.20	2.30	1.50	1.30	0.90	0.80	0.80	0.70	0.80	0.80
800 MHz	T	4.30	2.50	2.00	1.30	1.00	0.90	0.90	0.80	0.90	0.90
900 MHz	T	4.40	2.60	2.10	1.40	1.10	1.10	1.10	1.00	1.10	1.10
1000 MHz	T	4.50	3.00	2.50	1.50	1.40	1.10	1.20	1.10	1.20	1.40

Recommended Torque	
Housing Closure Screws	20-30 in. lb.
Center Conductor Seizure	15-20 in. lb.
Port Plugs	10-15 ft. lb.
Connector Pull-Out	100 lb. minimum

Ordering Information on Pages H57-H59

Specifications subject to change without notice

1 GHz Two Way Wide Body Tap
continued

REGAL

al Performance Specifications

	4.0	8.0	11.0	14.0	17.0	20.0	23.0	26.0	29.0	32.0	35.0
ominal Tap Value (dB)											
MHz	3.40	7.20	10.34	14.60	16.50	20.60	22.50	25.60	28.50	31.60	34.70
) MHz	3.40	7.20	10.70	14.60	16.50	20.60	22.60	25.70	28.50	31.60	34.70
30 MHz	3.50	7.20	10.78	14.40	16.50	20.60	22.60	25.80	28.70	31.90	35.20
00 MHz	3.60	7.20	10.70	14.20	16.60	20.60	22.60	25.90	28.90	32.30	35.30
10 MHz	3.50	7.40	10.68	14.20	16.70	21.80	22.60	26.10	28.90	32.60	35.70
20 MHz	3.60	7.40	10.74	13.80	16.70	21.00	22.90	26.10	29.10	32.60	35.70
30 MHz	3.70	7.60	10.72	13.60	16.80	21.10	22.90	26.00	29.10	32.60	35.60
50 MHz	3.80	7.60	10.76	13.20	16.80	21.20	22.80	25.80	28.90	32.50	35.50
) MHz	3.80	7.90	10.80	12.80	16.80	21.10	23.00	25.50	28.60	32.50	35.30
30 MHz	4.20	8.60	11.24	13.00	17.30	21.40	23.80	25.50	28.60	32.40	35.40
minal Insertion Loss (in/out) (dB)											
IHz	T	3.40	1.60	1.00	0.70	0.40	0.40	0.40	0.40	0.40	0.40
MHz	T	3.40	1.40	0.90	0.70	0.40	0.30	0.30	0.30	0.30	0.30
) MHz	T	3.50	1.60	1.00	0.70	0.40	0.40	0.50	0.50	0.50	0.50
) MHz	T	3.60	1.60	1.10	0.70	0.40	0.40	0.50	0.50	0.50	0.50
) MHz	T	3.80	1.80	1.30	1.00	0.60	0.70	0.70	0.70	0.70	0.70
	T	4.00	2.00	1.30	0.90	0.80	0.70	0.70	0.70	0.70	0.70
	T	4.30	2.30	1.50	1.30	0.90	0.80	0.80	0.70	0.80	0.80
MHz	T	4.30	2.50	2.00	1.30	1.00	0.90	0.90	0.80	0.90	0.90
MHz	T	4.40	2.60	2.10	1.40	1.10	1.10	1.10	1.00	1.10	1.10
) MHz	T	4.50	3.00	2.50	1.50	1.40	1.10	1.20	1.10	1.20	1.40

ommended Torque	
sing Closure Screws	20-30 in. lb.
ter Conductor Seizure	15-20 in. lb.
Plugs	10-15 ft. lb.
nector Pull-Out	100 lb. minimum

dications subject to change without notice

Ordering Information on Pages H57-H59