

*Typical Performance Data*

FREQ.  (MHz)	INSERTION LOSS			INPUT RETURN LOSS			OUTPUT RETURN LOSS		
	(dB)			(dB)			(dB)		
	@-40°C	@+25°C	@+85°C	@-40°C	@+25°C	@+85°C	@-40°C	@+25°C	@+85°C
1	85.24	84.65	84.05	0.00	0.00	0.00	0.00	0.00	0.00
5	71.34	71.46	71.30	0.00	0.00	0.00	0.01	0.01	0.01
25	58.05	57.82	57.84	0.01	0.01	0.01	0.02	0.03	0.03
50	53.43	53.37	53.36	0.01	0.02	0.02	0.05	0.07	0.08
100	55.86	55.96	55.98	0.02	0.04	0.04	0.16	0.19	0.21
150	54.63	54.62	54.64	0.05	0.08	0.08	0.28	0.31	0.33
200	45.71	45.74	45.80	0.13	0.16	0.16	0.33	0.39	0.43
250	57.20	56.37	55.42	0.23	0.28	0.28	0.45	0.54	0.61
275	39.93	39.99	39.98	0.31	0.37	0.38	0.59	0.68	0.74
300	49.20	50.41	51.52	0.41	0.49	0.52	0.69	0.79	0.84
305	46.02	44.34	42.86	0.44	0.52	0.56	0.70	0.80	0.86
310	35.75	34.98	34.27	0.47	0.56	0.61	0.72	0.82	0.88
314	30.74	30.15	29.62	0.50	0.60	0.65	0.72	0.83	0.89
320	25.05	24.57	24.15	0.56	0.68	0.75	0.75	0.87	0.94
326	20.43	19.99	19.62	0.65	0.78	0.87	0.80	0.93	1.01
340	11.75	11.41	11.09	1.19	1.41	1.58	1.20	1.40	1.55
350	6.97	6.79	6.56	2.29	2.61	2.92	2.17	2.46	2.72
360	3.72	3.73	3.66	4.58	4.96	5.38	4.27	4.63	4.99
380	1.31	1.45	1.53	11.53	11.64	11.82	10.87	11.04	11.32
400	0.84	0.97	1.07	17.18	17.05	16.53	17.17	17.15	16.82
425	0.76	0.88	0.97	17.23	17.51	16.98	17.37	17.57	16.93
450	0.77	0.88	0.95	16.37	17.05	17.38	15.73	16.22	16.38
475	0.72	0.84	0.91	19.56	20.43	21.94	18.29	18.90	19.99
500	0.69	0.82	0.91	35.71	37.56	43.87	31.92	33.15	38.68
510	0.70	0.84	0.94	32.82	32.47	28.96	33.90	32.62	28.72
550	0.92	1.08	1.19	17.25	17.26	17.52	16.25	16.12	16.11
600	1.93	2.31	2.65	11.37	10.84	10.25	10.21	9.58	8.84
605	2.68	3.14	3.57	7.98	7.67	7.31	7.15	6.73	6.23
625	8.67	9.32	9.94	2.13	2.24	2.27	1.75	1.75	1.71
655	20.02	20.59	21.16	0.79	0.94	1.02	0.55	0.62	0.65
680	28.61	29.12	29.63	0.60	0.74	0.82	0.38	0.44	0.47
685	30.24	30.74	31.24	0.58	0.72	0.79	0.36	0.42	0.44
700	35.02	35.51	35.97	0.55	0.67	0.75	0.31	0.37	0.39
725	42.81	43.30	43.74	0.52	0.64	0.71	0.26	0.32	0.34
750	50.88	51.34	51.86	0.51	0.62	0.69	0.22	0.28	0.30
760	54.25	54.82	55.21	0.51	0.61	0.69	0.21	0.26	0.29
770	57.67	58.33	58.71	0.51	0.61	0.68	0.20	0.26	0.28
780	60.92	61.57	61.49	0.50	0.61	0.68	0.19	0.25	0.27
790	63.44	64.06	63.15	0.51	0.61	0.68	0.18	0.24	0.26
800	64.17	64.63	63.29	0.50	0.60	0.68	0.17	0.23	0.25
820	63.34	63.69	62.43	0.49	0.59	0.67	0.16	0.21	0.23
840	62.57	62.77	61.81	0.49	0.59	0.66	0.15	0.21	0.23
860	62.28	62.59	61.60	0.49	0.59	0.66	0.14	0.20	0.22
880	62.44	62.72	61.55	0.47	0.58	0.66	0.13	0.19	0.21
900	62.78	62.81	61.83	0.46	0.57	0.65	0.13	0.18	0.21
920	63.47	63.41	62.58	0.46	0.57	0.64	0.12	0.18	0.20
940	63.78	63.87	63.06	0.44	0.56	0.64	0.12	0.18	0.20
960	64.28	64.37	63.53	0.43	0.55	0.63	0.11	0.17	0.20
980	65.07	65.06	63.96	0.42	0.54	0.62	0.11	0.17	0.20
1000	65.46	65.08	64.14	0.40	0.53	0.61	0.11	0.17	0.20
1020	65.55	65.43	64.53	0.39	0.52	0.61	0.11	0.17	0.20
1040	65.53	65.47	64.55	0.38	0.52	0.61	0.11	0.18	0.20
1060	65.51	64.92	64.47	0.37	0.51	0.60	0.11	0.18	0.20
1080	65.24	64.74	63.87	0.36	0.51	0.60	0.11	0.18	0.20
1100	64.80	64.20	63.49	0.36	0.51	0.60	0.11	0.18	0.20
1120	63.98	63.34	62.91	0.35	0.50	0.60	0.11	0.18	0.20
1150	62.62	61.92	61.33	0.34	0.51	0.61	0.12	0.18	0.21
1180	60.99	60.67	59.88	0.34	0.51	0.62	0.12	0.19	0.22
1200	59.85	59.35	58.86	0.35	0.52	0.63	0.13	0.20	0.22
1250	56.88	56.25	55.85	0.37	0.55	0.67	0.13	0.20	0.23



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

IF/RF MICROWAVE COMPONENTS

## Typical Performance Data

FREQ.  (MHz)	GROUP DELAY		
	(nsec)		
	@-40°C	@+25°C	@+85°C
400	6.62	6.57	6.52
402	6.51	6.47	6.41
404	6.40	6.35	6.31
406	6.29	6.25	6.21
408	6.20	6.16	6.12
410	6.11	6.07	6.03
412	6.02	5.99	5.95
414	5.94	5.91	5.87
416	5.86	5.83	5.80
418	5.79	5.76	5.73
420	5.72	5.70	5.67
422	5.65	5.63	5.60
424	5.59	5.57	5.55
426	5.53	5.52	5.49
428	5.48	5.46	5.44
430	5.43	5.42	5.40
432	5.38	5.36	5.35
434	5.34	5.33	5.31
436	5.29	5.29	5.28
438	5.25	5.25	5.24
440	5.22	5.22	5.21
442	5.18	5.18	5.18
444	5.15	5.16	5.15
446	5.12	5.12	5.12
448	5.10	5.10	5.11
450	5.08	5.08	5.09
452	5.06	5.06	5.07
454	5.04	5.04	5.05
456	5.03	5.03	5.04
458	5.02	5.02	5.03
460	5.00	5.01	5.03
462	5.00	5.00	5.02
464	5.00	5.00	5.02
466	4.99	4.99	5.01
468	4.98	4.99	5.01
470	4.99	4.99	5.01
472	4.98	4.99	5.01
474	4.99	4.99	5.01
476	4.99	4.99	5.01
478	4.99	4.99	5.01
480	5.00	5.01	5.02
482	5.00	5.01	5.03
484	5.01	5.02	5.03
486	5.02	5.02	5.04
488	5.03	5.03	5.05
490	5.04	5.04	5.06
492	5.05	5.05	5.06
494	5.06	5.06	5.08
496	5.07	5.08	5.09
498	5.08	5.08	5.10
500	5.09	5.10	5.11
502	5.11	5.11	5.12
504	5.12	5.13	5.14
506	5.14	5.14	5.15
508	5.15	5.16	5.17
510	5.17	5.18	5.18