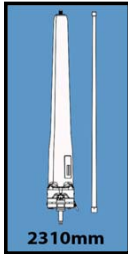


## 9300 Whip Behavior at Feed Point Typical Mounting on 4WD and Sedans

DOCUMENT 9300.T14.131

INDUCTOR LR27V19

NO CHOKE CABLING



F, MHz	Address	SWR	Z
1.506	-25	1.59	78-0j
1.53	0	1.72	85+2j
1.6	56	1.98	98+4j
1.7	121	2.4	120+1j
1.8	176	2.7	134-3j
1.9	223	2.86	142-2j
2	266	2.95	147-0j
2.1	304	2.73	137-1j
2.2	340	2.37	117+1j
2.3	373	2	100-1j
2.4	404	1.72	86-1j
2.5	433	1.55	77+1j
2.6	459	1.43	72+1j
2.7	483	1.37	68+0j
2.8	504	1.33	66+0j
2.9	523	1.29	64-0j
3	541	1.2	60-2j
3.1	557	1.13	55-2j
3.2	572	1.1	54-0j
3.3	586	1.09	54-2j
3.4	599	1.09	52-1j
3.5	610	1.05	51+2j
3.6	622	1.02	50-1j

Address	SWR	Z
-25	1.29	64+1j
0	1.33	66+1j
69	1.39	69-1j
132	1.51	75+1j
187	1.67	83-2j
234	1.92	95+1j
272	2.1	104+0j
316	2.27	113+4j
351	2.18	1-9+2j
383	1.89	94+0j
413	1.61	80+2j
441	1.41	70+2j
467	1.3	64-0j
490	1.26	63-2j
510	1.28	65+2j
529	1.27	63-1j
546	1.16	57+1j
561	1.07	52+2j
576	1.05	49+0j
590	1.1	46-0j
602	1.13	44+2j
614	1.16	43+1j
625	1.15	43-1j

Address	SWR	Z
-25	1.29	63-1j
0	1.34	66+1j
63	1.38	63-2j
127	1.51	75+3j
182	1.68	83+2j
231	1.93	96+0j
274	2.15	108-0j
314	2.22	111-1j
349	2.22	110-2j
381	1.98	99-2j
411	1.71	85+2j
439	1.5	75-0j
465	1.33	66+1j
488	1.3	65+0j
509	1.36	68-0j
527	1.35	67+1j
544	1.26	63+2j
560	1.15	56+3j
575	1.03	51+0j
589	1.07	48-2j
601	1.08	47+1j
613	1.08	46+0j
624	1.1	46-4j

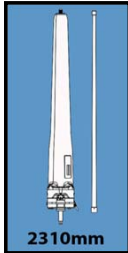
Address	SWR	Z
-25	1.6	79-1j
0	1.67	83-0j
53	1.8	90-2j
118	2.04	101-4j
173	2.3	115+1j
221	2.53	126-2j
263	2.56	128+1j
303	2.27	113+1j
339	1.96	98-1j
372	1.72	85+2j
403	1.54	76+3j
432	1.39	69+0j
458	1.3	64+3j
481	1.22	60+0j
503	1.16	57+0j
522	1.15	56-0j
540	1.12	55-1j
556	1.1	54+0j
572	1.07	54+3j
586	1.05	49+0j
599	1.08	48+2j
611	1.07	46-0j
622	1.09	47+0j

## 9300 Whip Behavior at Feed Point Typical Mounting on 4WD and Sedans

DOCUMENT 9300.T14.131

INDUCTOR LR27V19

NO CHOKE CABLING



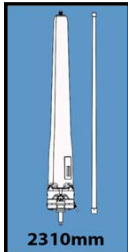
F, MHz	Address	SWR	Z	Address	SWR	Z	Address	SWR	Z	Address	SWR	Z
3.7	632	1.06	52-1j	635	1.09	46+0j	634	1.04	50-0j	632	1.03	49+1j
3.8	641	1.15	57+2j	644	1.05	49+2j	643	1.06	52+1j	641	1.08	53+0j
3.9	650	1.11	55-0j	652	1.08	46+1j	651	1.1	47+3j	650	1.02	50-0j
4	658	1.05	48-1j	661	1.23	40-1j	660	1.23	40-1j	658	1.1	45-1j
4.1	666	1.15	43+1j	668	1.4	36+4j	668	1.28	38+0j	666	1.24	40+0j
4.2	674	1.24	40+1j	676	1.43	35+3j	675	1.3	39+5j	672	1.21	41-3j
4.3	681	1.28	39+1j	683	1.48	33-0j	682	1.43	35+3j	681	1.39	36+2j
4.4	688	1.33	38+2j	690	1.5	33+1j	689	1.48	33+1j	688	1.41	35-0j
4.5	694	1.35	37+2j	696	1.56	32+1j	696	1.49	33+0j	694	1.43	35-1j
4.6	700	1.39	36+4j	702	1.59	31-2j	702	1.54	32+2j	700	1.43	35+3j
4.7	700	1.41	36+4j	708	1.61	31-1j	708	1.58	31-3j	706	1.45	34+2j
4.8	712	1.42	35+2j	714	1.63	31+1j	713	1.6	31+0j	712	1.5	33+2j
4.9	717	1.44	34+2j	719	1.64	30+3j	718	1.62	31+5j	717	1.53	32+1j
5	722	1.46	34+4j	724	1.66	30+2j	723	1.65	30-5j	722	1.57	32+3j
5.2	732	1.5	33+1j	733	1.7	29+3j	733	1.69	29+1j	732	1.57	32+2j
5.4	741	1.54	32-1j	742	1.76	28+2j	742	1.7	28-1j	741	1.61	31-1j
5.6	749	1.57	31+2j	750	1.67	30-0j	750	1.74	28-1j	749	1.61	31+1j
5.8	757	1.63	30+3j	758	1.86	27+0j	757	1.84	27+3j	756	1.61	31+2j
6	764	1.64	30+2j	765	1.9	26-2j	765	1.79	27-2j	764	1.63	30+0j
6.2	771	1.68	29+1j	771	1.9	26+3j	771	1.84	27+5j	770	1.63	31+6j
6.4	777	1.73	29+3j	777	2	25-3j	777	1.95	26+5j	777	1.58	31-1j
6.6	783	1.75	28+2j	783	2	25+6j	783	1.96	25-3j	783	1.66	30-2j
6.8	789	1.75	28+0j	789	2	25+3j	798	1.92	26+2j	788	1.7	30+6j
7	795	1.73	28+0j	795	2.09	24-2j	795	1.97	25-1j	794	1.72	29+1j
7.2	800	1.7	29+2j	800	2.07	24+4j	800	2	25+3j	799	1.7	29+1j

## 9300 Whip Behavior at Feed Point Typical Mounting on 4WD and Sedans

DOCUMENT 9300.T14.131

INDUCTOR LR27V19

NO CHOKE CABLING



F, MHz
7.4
7.6
7.8
8
8.2
8.4
8.6
8.8
9
9.2
9.4
9.6
9.8
10
10.5
11
11.5
12
12.5
13
13.5
14
14.5
15
15.5

Address	SWR	Z
805	1.62	31+3j
810	1.37	36-1j
815	1.77	28-1j
819	1.8	28+4j
824	1.78	28+1j
829	1.78	28+1j
833	1.8	28+5j
838	1.72	29+1j
843	1.57	31+2j
847	1.45	34+4j
852	1.46	34+3j
858	1.58	31+1j
863	1.61	31+3j
869	1.64	30+2j
883	1.63	30+3j
898	1.55	32+3j
912	1.44	34+2j
925	1.35	37+1j
937	1.27	39+1j
949	1.22	41+2j
961	1.13	44+0j
972	1.02	50+1j
983	1.17	58-3j
991	1.31	65-3j
998	1.39	69-2j

Address	SWR	Z
805	2.15	23-0j
807	2.14	23+1j
811	2.07	24+5j
816	2.04	24+4j
820	1.98	25+3j
826	2	25+4j
829	1.92	26+4j
834	1.95	25+0j
840	1.94	26+5j
845	1.91	26+1j
850	1.77	28+2j
855	1.96	25+4j
860	2.06	24+4j
865	2.12	23+1j
879	1.9	26+3j
894	2.02	24+2j
907	1.92	26+5j
920	1.76	28+4j
933	1.65	30+5j
945	1.54	33+5j
956	1.45	35+5j
967	1.36	37+5j
977	1.24	41+3j
986	1.14	44+2j
994	1.09	46-0j

Address	SWR	Z
805	2.09	24+2j
810	1.82	27+2j
814	2.01	24+3j
819	2.09	24+5j
824	1.95	25+0j
828	1.94	25+1j
833	1.8	27+2j
837	1.81	27+2j
841	1.75	29+4j
846	1.68	30+1j
851	1.74	28+3j
856	2.02	25+4j
862	2.11	23+3j
867	2.2	23+6j
882	2.11	24+5j
896	2.02	25+5j
911	1.95	26+4j
924	1.79	28+5j
936	1.62	30+0j
950	1.5	33+0j
961	1.4	36+2j
973	1.25	40+2j
984	1.3	49+0j
995	1.55	74-11j
990	1.42	71-0j

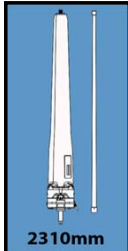
Address	SWR	Z
804	1.67	30+3j
809	1.65	30-0j
814	1.68	29-0j
818	1.61	31+2j
823	1.61	31+4j
827	1.55	33+5j
832	1.47	34+1j
836	1.34	37+3j
841	1.32	38+3j
845	1.25	40+1j
850	1.4	35+0j
855	1.47	34+1j
860	1.41	35+3j
866	1.39	36+1j
880	1.42	35+0j
895	1.3	39+4j
908	1.28	39+0j
922	1.24	40+0j
934	1.24	40+1j
947	1.19	42+0j
959	1.12	44+1j
970	1.05	48-0j
980	1.07	53-0j
988	1.14	57-0j
998	1.14	56-2j

## 9300 Whip Behavior at Feed Point Typical Mounting on 4WD and Sedans

DOCUMENT 9300.T14.131

INDUCTOR LR27V19

NO CHOKE CABLING



F, MHz
16
16.5
17
17.5
18
18.5
19
19.5
20
21
22
23
24
25
26
27
28
29
30

Address	SWR	Z
1006	1.43	70-5j
1011	1.52	71-2j
1018	1.32	66-2j
1025	1.31	64-4j
1031	1.23	61-2j
1037	1.19	59-1j
1043	1.15	57-1j
1049	1.13	56-0j
1056	1.09	54-1j
1066	1.1	55-0j
1078	1.12	56-1j
1098	1.08	54-0j
1106	1.12	55-2j
1121	1.17	58-2j
1134	1.24	61-3j
1153	1.28	62-6j
1170	1.38	69-3j
1170	1.54	74+11j
1170	2.06	82+35j

Address	SWR	Z
1002	1.11	45+0j
1009	1.09	47+2j
1017	1.04	48-0j
1023	1.01	49-0j
1029	1.04	51+1j
1034	1.05	52-0j
1040	1.09	54-0j
1045	1.13	56-2j
1049	1.2	59-2j
1058	1.1	45+2j
1073	1.2	52-8j
1075	1.11	55-1j
1087	1.2	41+1j
1099	1.26	41+6j
1110	1.11	44+0j
1120	1.12	44+1j
1131	1.1	45+1j
1141	1.06	47+1j
1151	1.03	49+1j

Address	SWR	Z
1001	1.02	49+0j
1010	1.08	46+0j
1018	1.05	48+1j
1026	1.05	51-1j
1033	1.12	55-2j
1039	1.49	72-8j
1036	1.37	68-5j
1043	1.05	47+0j
1050	1.2	41-0j
1062	1.32	38+2j
1074	1.23	41+3j
1086	1.2	41+1j
1098	1.23	40+2j
1112	1.17	43+1j
1120	1.03	48+0j
1131	1.06	47+1j
1143	1.1	46+1j
1157	1.06	47+1j
1170	1.1	48+4j

Address	SWR	Z
1005	1.17	58-0j
1012	1.19	59+0j
1020	1.18	58-2j
1027	1.25	61-3j
1033	1.31	64-4j
1038	1.33	66-3j
1044	1.32	65-4j
1048	1.35	67-2j
1053	1.34	67-0j
1064	1.25	62-0j
1077	1.33	65-5j
1086	1.37	68-1j
1096	1.34	67-1j
1108	1.24	62+0j
1125	1.27	62-4j
1136	1.37	67-5j
1150	1.46	71-7j
1170	1.55	73-12j