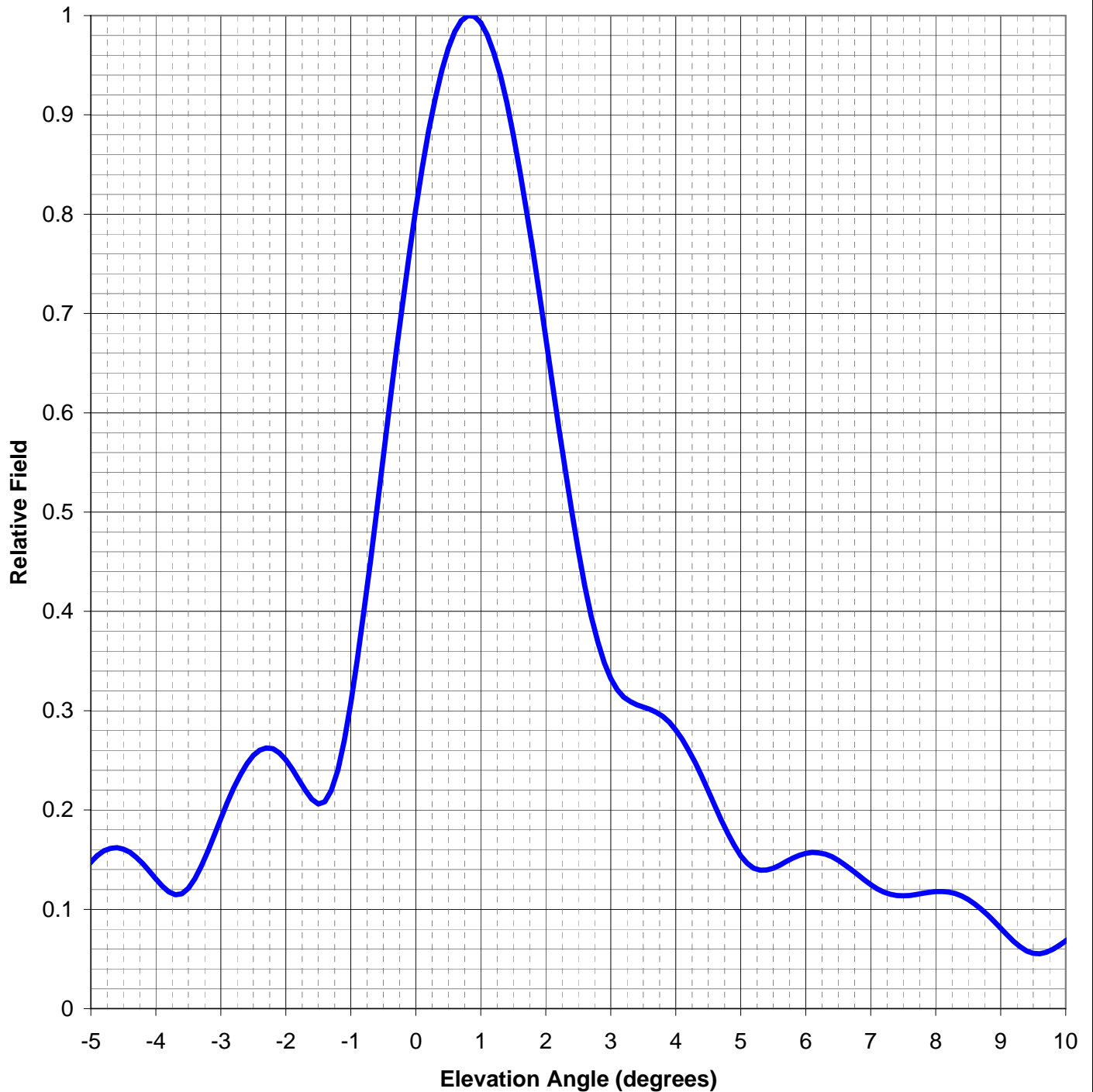


ELEVATION PATTERN

TYPE: CH20ELH
Directivity: Numeric dBd
Main Lobe:
Horizontal:

Beam Tilt: _____
Polarization: Horizontal
Channel: 20 (DTV)
Location: Edenton, NC



Electronics Research, Inc.

7777 Gardner Road
Chandler, IN 47610

TABULATED DATA FOR ELEVATION PATTERN

TYPE: CH20ELH

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
-5.00	0.15	-16.61	-0.50	0.56	-5.10	2.00	0.68	-3.41	6.50	0.15	-16.51
-4.90	0.15	-16.24	-0.40	0.61	-4.31	2.10	0.63	-4.01	6.60	0.14	-16.78
-4.80	0.16	-15.99	-0.30	0.66	-3.59	2.20	0.59	-4.65	6.70	0.14	-17.07
-4.70	0.16	-15.84	-0.20	0.71	-2.95	2.30	0.54	-5.32	6.80	0.13	-17.40
-4.60	0.16	-15.81	-0.10	0.76	-2.38	2.40	0.50	-6.02	6.90	0.13	-17.75
-4.50	0.16	-15.88	0.00	0.81	-1.88	2.50	0.46	-6.72	7.00	0.12	-18.07
-4.40	0.16	-16.05	0.05	0.81	-1.88	2.60	0.43	-7.41	7.10	0.12	-18.37
-4.30	0.15	-16.34	0.10	0.85	-1.44	2.70	0.40	-8.07	7.20	0.12	-18.62
-4.20	0.15	-16.72	0.15	0.85	-1.44	2.80	0.37	-8.66	7.30	0.12	-18.78
-4.10	0.14	-17.18	0.20	0.88	-1.07	2.90	0.35	-9.16	7.40	0.11	-18.88
-4.00	0.13	-17.68	0.25	0.88	-1.07	3.00	0.33	-9.57	7.50	0.11	-18.90
-3.90	0.12	-18.18	0.30	0.92	-0.75	3.10	0.32	-9.87	7.60	0.11	-18.87
-3.80	0.12	-18.59	0.35	0.92	-0.75	3.20	0.31	-10.07	7.70	0.11	-18.79
-3.70	0.11	-18.81	0.40	0.94	-0.49	3.30	0.31	-10.20	7.80	0.12	-18.71
-3.60	0.12	-18.73	0.45	0.94	-0.49	3.40	0.31	-10.29	7.90	0.12	-18.63
-3.50	0.12	-18.34	0.50	0.97	-0.29	3.50	0.30	-10.35	8.00	0.12	-18.57
-3.40	0.13	-17.69	0.55	0.97	-0.29	3.60	0.30	-10.41	8.10	0.12	-18.57
-3.30	0.14	-16.87	0.60	0.98	-0.14	3.70	0.30	-10.50	8.20	0.12	-18.61
-3.20	0.16	-16.00	0.65	0.98	-0.14	3.80	0.29	-10.62	8.30	0.12	-18.72
-3.10	0.17	-15.15	0.70	0.99	-0.04	3.90	0.29	-10.80	8.40	0.11	-18.92
-3.00	0.19	-14.36	0.75	0.99	-0.04	4.00	0.28	-11.04	8.50	0.11	-19.18
-2.90	0.21	-13.66	0.80	1.00	0.00	4.10	0.27	-11.34	8.60	0.11	-19.54
-2.80	0.22	-13.06	0.85	1.00	0.00	4.20	0.26	-11.70	8.70	0.10	-19.99
-2.70	0.24	-12.56	0.90	1.00	-0.01	4.30	0.25	-12.13	8.80	0.09	-20.52
-2.60	0.25	-12.17	0.95	1.00	-0.01	4.40	0.23	-12.62	8.90	0.09	-21.15
-2.50	0.25	-11.87	1.00	0.99	-0.06	4.50	0.22	-13.18	9.00	0.08	-21.85
-2.40	0.26	-11.69	1.05	0.99	-0.06	4.60	0.20	-13.79	9.10	0.07	-22.60
-2.30	0.26	-11.61	1.10	0.98	-0.17	4.70	0.19	-14.42	9.20	0.07	-23.39
-2.20	0.26	-11.65	1.15	0.98	-0.17	4.80	0.18	-15.07	9.30	0.06	-24.13
-2.10	0.26	-11.78	1.20	0.96	-0.33	4.90	0.16	-15.69	9.40	0.06	-24.73
-2.00	0.25	-12.02	1.25	0.96	-0.33	5.00	0.15	-16.25	9.50	0.06	-25.09
-1.90	0.24	-12.35	1.30	0.94	-0.54	5.10	0.15	-16.69	9.60	0.06	-25.15
-1.80	0.23	-12.74	1.35	0.94	-0.54	5.20	0.14	-16.99	9.70	0.06	-24.92
-1.70	0.22	-13.16	1.40	0.91	-0.79	5.30	0.14	-17.12	9.80	0.06	-24.47
-1.60	0.21	-13.53	1.45	0.91	-0.79	5.40	0.14	-17.11	9.90	0.06	-23.92
-1.50	0.21	-13.73	1.50	0.88	-1.11	5.50	0.14	-17.00	10.00	0.07	-23.33
-1.40	0.21	-13.63	1.55	0.88	-1.11	5.60	0.14	-16.81			
-1.30	0.22	-13.17	1.60	0.84	-1.47	5.70	0.15	-16.59			
-1.20	0.24	-12.38	1.65	0.84	-1.47	5.80	0.15	-16.39			
-1.10	0.27	-11.36	1.70	0.81	-1.88	5.90	0.15	-16.24			
-1.00	0.31	-10.23	1.75	0.81	-1.88	6.00	0.16	-16.12			
-0.90	0.35	-9.09	1.80	0.76	-2.34	6.10	0.16	-16.07			
-0.80	0.40	-7.98	1.85	0.76	-2.34	6.20	0.16	-16.09			
-0.70	0.45	-6.94	1.90	0.72	-2.85	6.30	0.16	-16.17			
-0.60	0.50	-5.98	1.95	0.72	-2.85	6.40	0.15	-16.31			



Electronics Research, Inc.

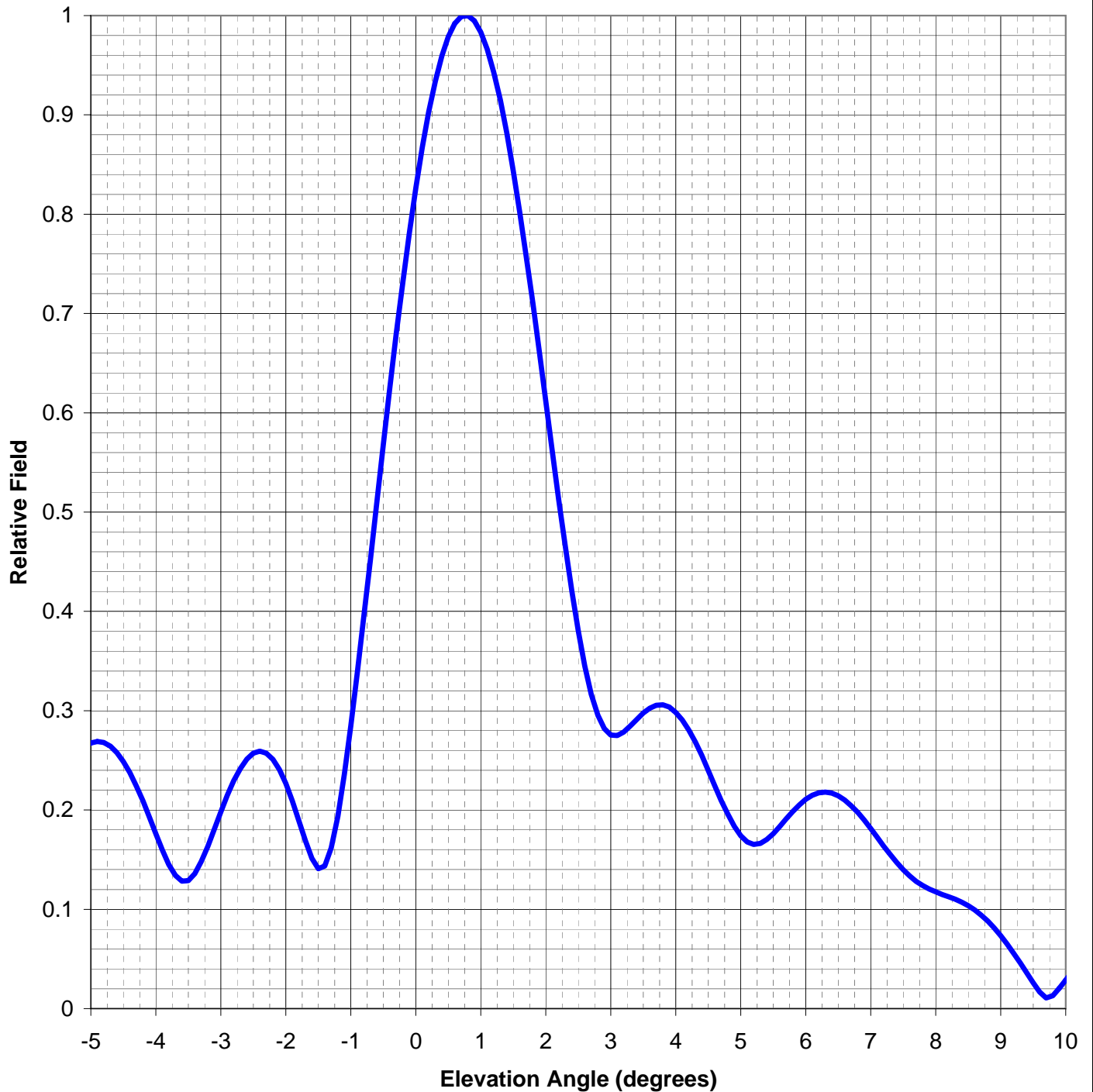
7777 Gardner Road

Chandler, IN 47610

ELEVATION PATTERN

TYPE: CH20ELV
Directivity: Numeric dBd
Main Lobe:
Horizontal:

Beam Tilt: _____
Polarization: Vertical
Channel: 20 (DTV)
Location: Edenton, NC



Electronics Research, Inc.

7777 Gardner Road
Chandler, IN 47610

TABULATED DATA FOR ELEVATION PATTERN

TYPE: CH20ELV

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
-5.00	0.27	-11.46	-0.50	0.57	-4.91	2.00	0.61	-4.27	6.50	0.21	-13.38
-4.90	0.27	-11.40	-0.40	0.62	-4.09	2.10	0.56	-5.01	6.60	0.21	-13.56
-4.80	0.27	-11.44	-0.30	0.68	-3.36	2.20	0.51	-5.81	6.70	0.20	-13.79
-4.70	0.26	-11.56	-0.20	0.73	-2.71	2.30	0.47	-6.65	6.80	0.20	-14.08
-4.60	0.26	-11.78	-0.10	0.78	-2.15	2.40	0.42	-7.52	6.90	0.19	-14.44
-4.50	0.25	-12.08	0.00	0.83	-1.66	2.50	0.38	-8.40	7.00	0.18	-14.83
-4.40	0.24	-12.48	0.05	0.83	-1.66	2.60	0.35	-9.24	7.10	0.17	-15.26
-4.30	0.22	-12.98	0.10	0.87	-1.24	2.70	0.32	-9.99	7.20	0.16	-15.72
-4.20	0.21	-13.59	0.15	0.87	-1.24	2.80	0.30	-10.59	7.30	0.16	-16.18
-4.10	0.19	-14.30	0.20	0.90	-0.88	2.90	0.28	-11.00	7.40	0.15	-16.64
-4.00	0.18	-15.09	0.25	0.90	-0.88	3.00	0.28	-11.20	7.50	0.14	-17.08
-3.90	0.16	-15.93	0.30	0.93	-0.59	3.10	0.27	-11.22	7.60	0.13	-17.49
-3.80	0.15	-16.76	0.35	0.93	-0.59	3.20	0.28	-11.10	7.70	0.13	-17.84
-3.70	0.13	-17.45	0.40	0.96	-0.36	3.30	0.28	-10.92	7.80	0.12	-18.15
-3.60	0.13	-17.84	0.45	0.96	-0.36	3.40	0.29	-10.72	7.90	0.12	-18.39
-3.50	0.13	-17.80	0.50	0.98	-0.19	3.50	0.30	-10.53	8.00	0.12	-18.60
-3.40	0.14	-17.34	0.55	0.98	-0.19	3.60	0.30	-10.38	8.10	0.11	-18.79
-3.30	0.15	-16.59	0.60	0.99	-0.07	3.70	0.31	-10.30	8.20	0.11	-18.97
-3.20	0.16	-15.73	0.65	0.99	-0.07	3.80	0.31	-10.29	8.30	0.11	-19.16
-3.10	0.18	-14.86	0.70	1.00	-0.01	3.90	0.30	-10.35	8.40	0.11	-19.40
-3.00	0.20	-14.06	0.75	1.00	-0.01	4.00	0.30	-10.51	8.50	0.10	-19.69
-2.90	0.21	-13.36	0.80	1.00	0.00	4.10	0.29	-10.73	8.60	0.10	-20.06
-2.80	0.23	-12.78	0.85	1.00	0.00	4.20	0.28	-11.04	8.70	0.09	-20.53
-2.70	0.24	-12.33	0.90	0.99	-0.05	4.30	0.27	-11.42	8.80	0.09	-21.10
-2.60	0.25	-12.00	0.95	0.99	-0.05	4.40	0.25	-11.87	8.90	0.08	-21.82
-2.50	0.26	-11.79	1.00	0.98	-0.15	4.50	0.24	-12.40	9.00	0.07	-22.69
-2.40	0.26	-11.72	1.05	0.98	-0.15	4.60	0.22	-12.97	9.10	0.06	-23.77
-2.30	0.26	-11.79	1.10	0.97	-0.30	4.70	0.21	-13.57	9.20	0.06	-25.10
-2.20	0.25	-12.00	1.15	0.97	-0.30	4.80	0.20	-14.17	9.30	0.05	-26.76
-2.10	0.24	-12.37	1.20	0.94	-0.51	4.90	0.18	-14.72	9.40	0.04	-28.89
-2.00	0.23	-12.89	1.25	0.94	-0.51	5.00	0.17	-15.19	9.50	0.03	-31.69
-1.90	0.21	-13.59	1.30	0.91	-0.77	5.10	0.17	-15.50	9.60	0.02	-35.48
-1.80	0.19	-14.45	1.35	0.91	-0.77	5.20	0.17	-15.63	9.70	0.01	-39.36
-1.70	0.17	-15.44	1.40	0.88	-1.09	5.30	0.17	-15.58	9.80	0.01	-37.73
-1.60	0.15	-16.40	1.45	0.88	-1.09	5.40	0.17	-15.38	9.90	0.02	-33.78
-1.50	0.14	-17.02	1.50	0.84	-1.48	5.50	0.18	-15.09	10.00	0.03	-30.80
-1.40	0.14	-16.86	1.55	0.84	-1.48	5.60	0.18	-14.74			
-1.30	0.16	-15.82	1.60	0.80	-1.92	5.70	0.19	-14.38			
-1.20	0.19	-14.25	1.65	0.80	-1.92	5.80	0.20	-14.04			
-1.10	0.24	-12.55	1.70	0.76	-2.41	5.90	0.21	-13.76			
-1.00	0.28	-10.91	1.75	0.76	-2.41	6.00	0.21	-13.52			
-0.90	0.34	-9.42	1.80	0.71	-2.97	6.10	0.21	-13.36			
-0.80	0.39	-8.09	1.85	0.71	-2.97	6.20	0.22	-13.26			
-0.70	0.45	-6.90	1.90	0.66	-3.59	6.30	0.22	-13.23			
-0.60	0.51	-5.85	1.95	0.66	-3.59	6.40	0.22	-13.27			



Electronics Research, Inc.

7777 Gardner Road

Chandler, IN 47610