



6340 Sky Creek Drive, Sacramento, California 95828
P.O. Box 292680, Sacramento, California 95829-2880

(916) 383-1177 FAX (916) 383-1182

ANTENNA SPECIFICATIONS

MODEL: JMPC-1R DA **SERIAL NO:** 14182

ELECTRICAL SPECIFICATIONS

FREQUENCY: 91.9 MHz.

POLARIZATION: Circular

AZIMUTH PATTERN: Directional

GAIN: 1.04x (0.16 dBd) Horizontal Polarization
1.04x (0.16 dBd) Vertical Polarization

BEAM TILT: 0.0°

NULL FILL: 0%

INPUT POWER: 10 kW avg.

INPUT IMPEDANCE: 50 ohms, nominal

MAXIMUM VSWR: 1.1:1 over $F_c \pm .200$ MHz.

ELECTRICAL DE-ICER: none

INPUT CONNECTION: 1-5/8" Flanged, female

MECHANICAL/ENVIRONMENTAL SPECIFICATIONS

WEIGHT: 130 lbs. (60 kg), no ice

WIND SHEAR: 275 lbs. (125 kg), no ice, per RS-222F

PRESSURIZATION: 10 psi max, 3-5 psi operating

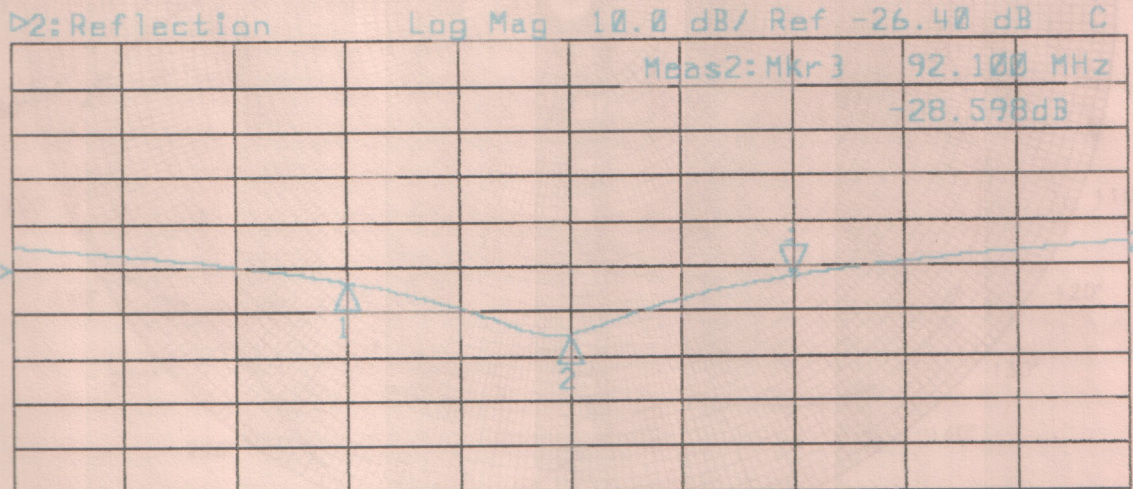
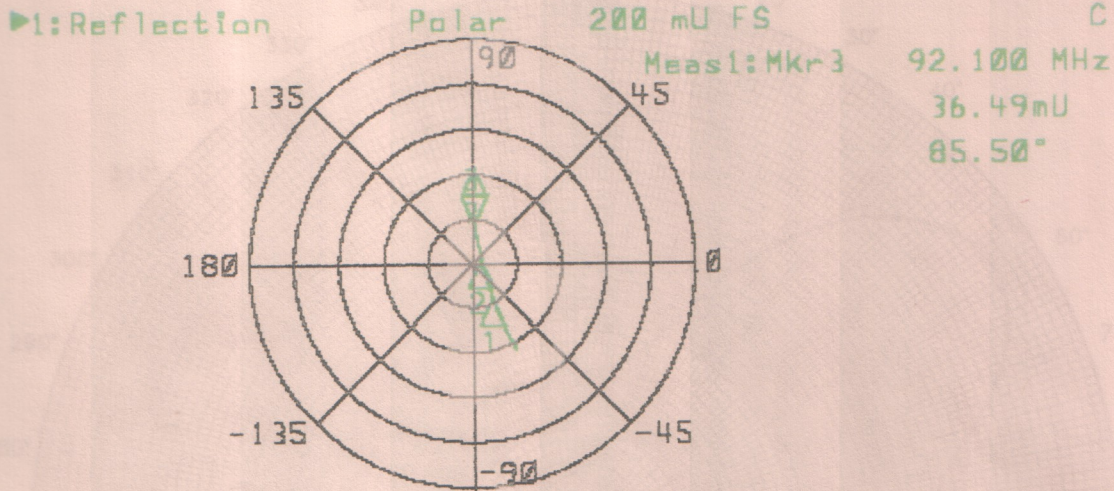
ANTI-ICING PROTECTION: Radome



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IMPEDANCE DATA PLOT



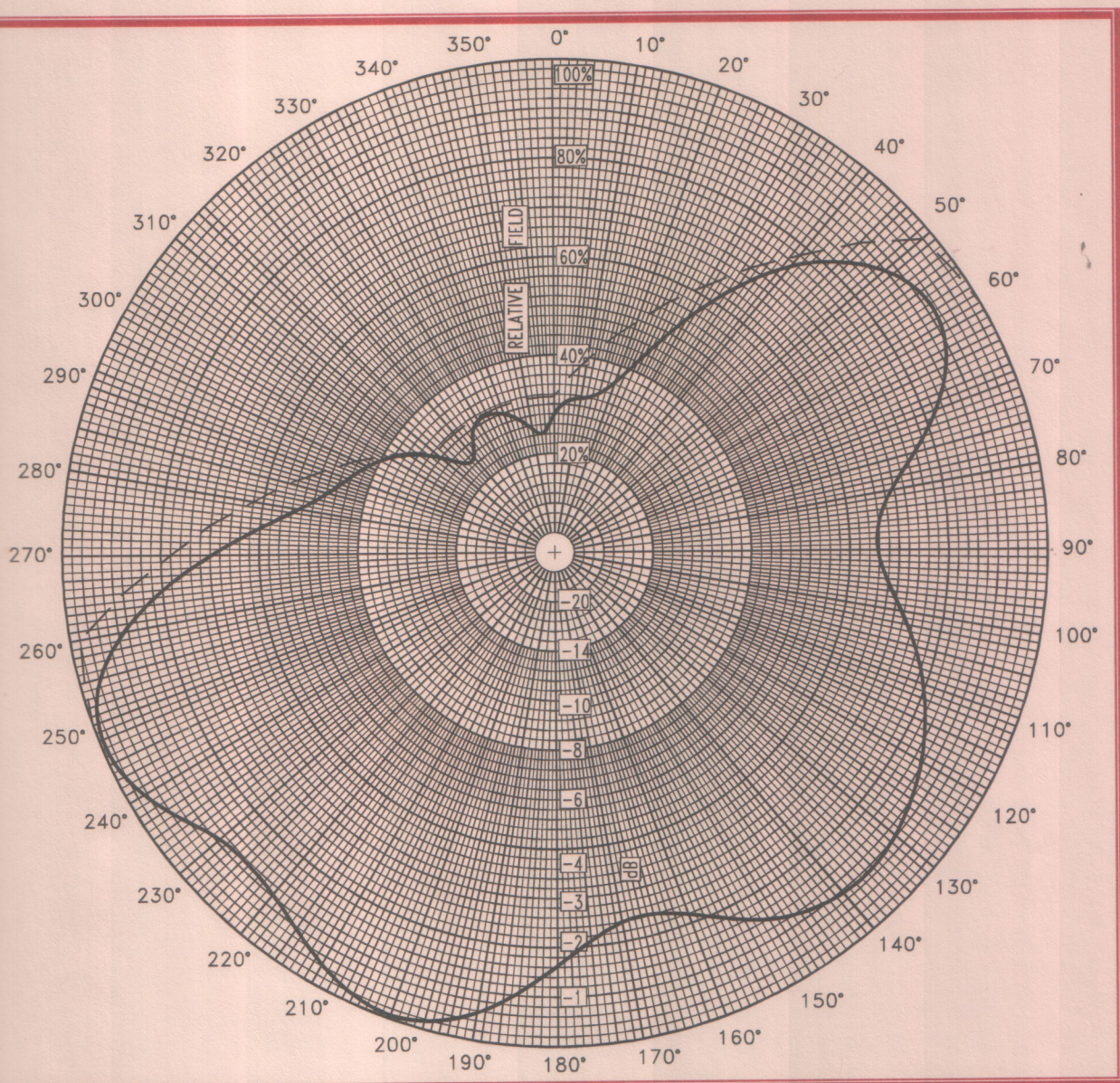
1: Mkr (MHz)				2: Mkr (MHz)			
U	Deg			dB			
1: 91.700	34.34m	-59.23	1: 91.7000	-29.611			
2: 91.900	8.822m	21.15	2: 91.9000	-41.215			
3: 92.100	36.49m	85.50	3: 92.1000	-28.598			



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AZIMUTH PATTERN

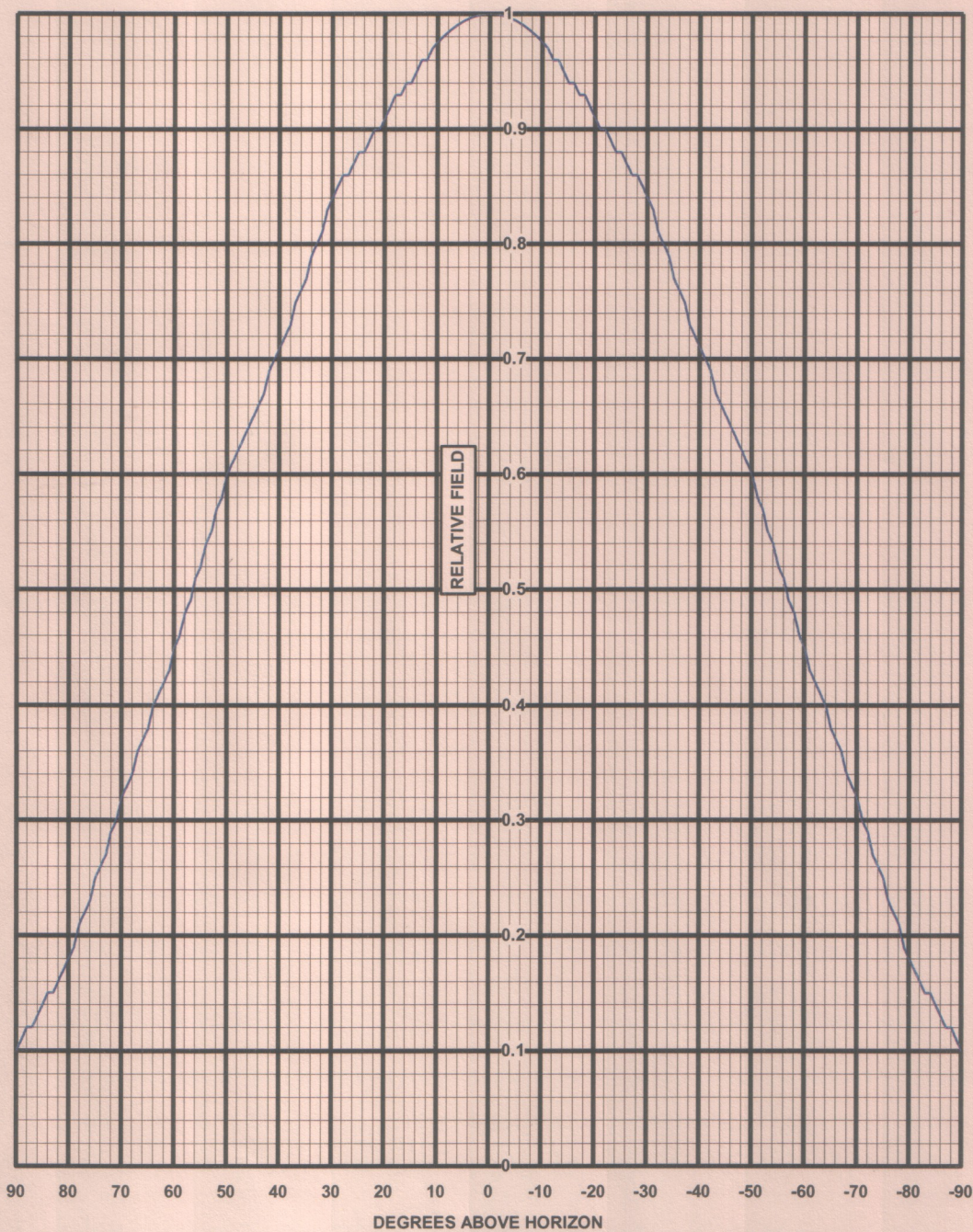




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ELEVATION PATTERN





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ELEVATION PATTERN TABULATION

RELATIVE FIELD VS ELEVATION ANGLE

<u>ELEVATION</u> <u>ANGLE</u>	<u>RELATIVE</u> <u>FIELD</u>	<u>ELEVATION</u> <u>ANGLE</u>	<u>RELATIVE</u> <u>FIELD</u>	<u>ELEVATION</u> <u>ANGLE</u>	<u>RELATIVE</u> <u>FIELD</u>
10	0.975	-26	0.870	-61	0.430
9	0.980	-27	0.860	-62	0.420
8	0.984	-28	0.860	-63	0.410
7	0.988	-29	0.850	-64	0.400
6	0.991	-30	0.840	-65	0.380
5	0.994	-31	0.830	-66	0.370
4	0.996	-32	0.810	-67	0.360
3	0.998	-33	0.800	-68	0.340
2	0.999	-34	0.790	-69	0.330
1	1.000	-35	0.770	-70	0.320
0	1.000	-36	0.760	-71	0.300
-1	1.000	-37	0.750	-72	0.290
-2	0.999	-38	0.730	-73	0.270
-3	0.998	-39	0.720	-74	0.260
-4	0.996	-40	0.710	-75	0.250
-5	0.994	-41	0.700	-76	0.230
-6	0.991	-42	0.690	-77	0.220
-7	0.988	-43	0.670	-78	0.210
-8	0.984	-44	0.660	-79	0.190
-9	0.980	-45	0.650	-80	0.180
-10	0.975	-46	0.640	-81	0.170
-11	0.970	-47	0.630	-82	0.160
-12	0.960	-48	0.620	-83	0.150
-13	0.960	-49	0.610	-84	0.150
-14	0.950	-50	0.600	-85	0.140
-15	0.940	-51	0.580	-86	0.130
-16	0.940	-52	0.570	-87	0.120
-17	0.930	-53	0.550	-88	0.120
-18	0.930	-54	0.540	-89	0.110
-19	0.920	-55	0.520	-90	0.100
-20	0.910	-56	0.510		
-21	0.900	-57	0.490		
-22	0.900	-58	0.480		
-23	0.890	-59	0.460		
-24	0.880	-60	0.450		
-25	0.880				



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TOP VIEW

