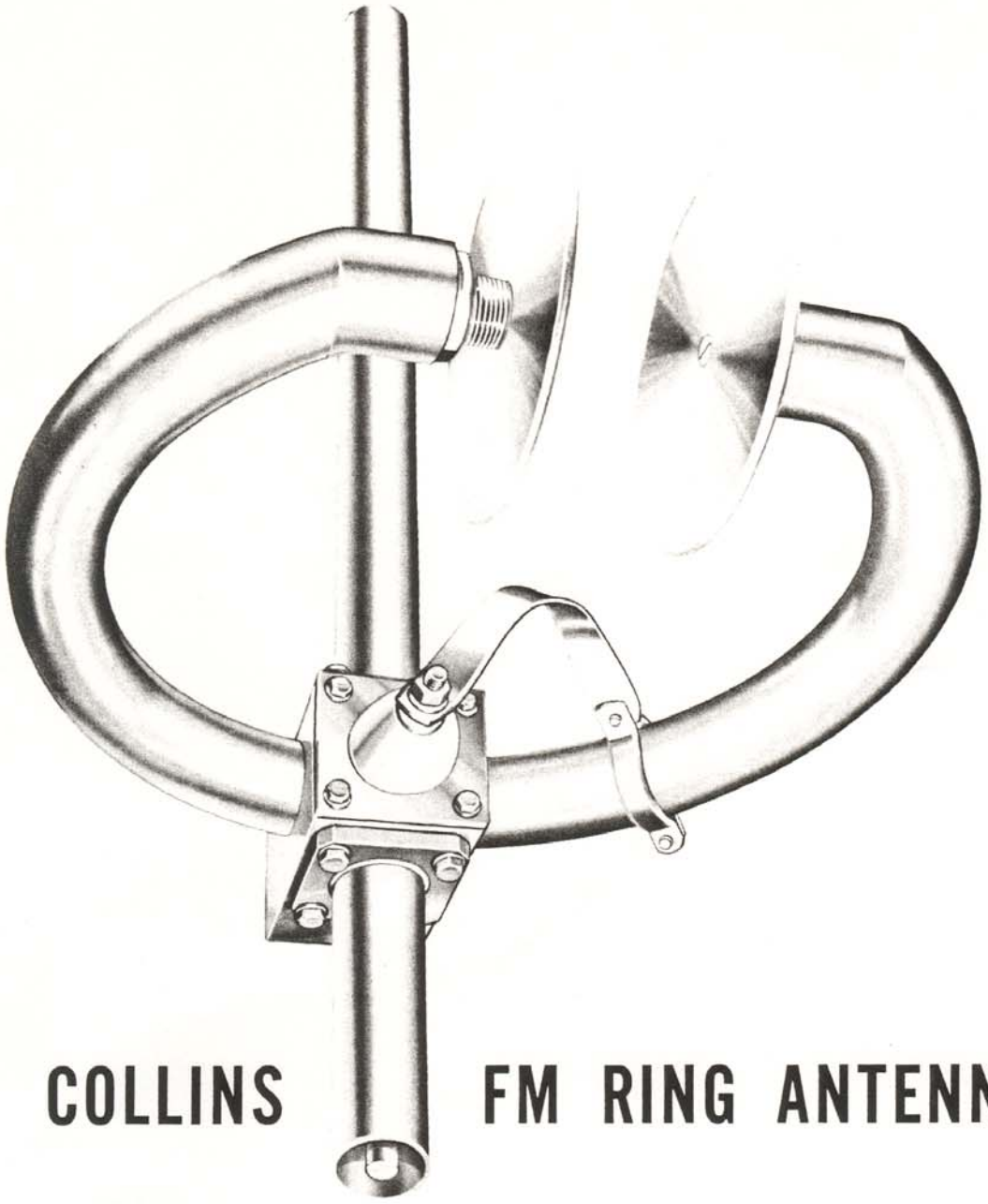

COLLINS FM RING ANTENNA

Effective in multiplexing

Capacitive adjustment

Top or side mounting

High gain

Light weight and low windloading

Equal distribution of power

MOUNTING

The 37M Antenna is easy and quick to erect. There are no heavy hoisting problems so that many hours of erection time can be saved. Support brackets are specially fabricated for each installation to match the tower and mounting arrangement, thus minimizing erection problems at the site.

There are two methods of mounting the 37M Antenna:

1. Side mounting of any number of rings on a corner leg of the tower offers definite advantages. Either guyed or self-supporting towers will in nearly all cases support the side mounting 37M. Towers which support top mounting television antenna arrays increase their usefulness with the addition of a side mounting 37M Antenna.

2. Top or pole mounting design is available on special order for installation on towers where no TV antenna is present or planned. This type of mounting provides the maximum in height and coverage. The light weight and windloading of the top mounting series allows erection on most guyed and self-supporting towers without extensive tower modification.

SIDE MOUNTING

Collins Type	No. of Rings	Power Gain	Field Gain	A Feet	On 1⅝" Line B	On 1⅝" Line Weight	On 3⅛" Line B	On 3⅛" Line Weight
37M-1	1	.9	.95	2-6±	24	23	32	46
37M-2	2	2.0	1.41	12-6±	68	55	100	100
37M-3	3	3.0	1.73	22-6±	114	86	170	175
37M-4	4	4.1	2.02	32-6±	160	119	240	240
37M-5	5	5.2	2.28	42-6±	206	152	310	305
37M-6	6	6.3	2.51	52-6±	252	185	380	370
37M-7	7	7.3	2.70	62-6±	298	218	450	435
37-M-8*	8	8.4	2.90	72-6±	344	251	520	500

TOP MOUNTING

Collins Type	No. of Rings	Pwr. Gain	A Ft.	B Ft.	C Ft.	On 1⅝" Line D Ft.	E Dia.	F Dia.	G Lbs.	H Ft.-Lbs.	Dead Wt.	On 3⅛" Line D Ft.	E Dia.	F Dia.	G Lbs.	H Ft.-Lbs.	Dead Wt.
37M-1	1	.9	6		3	4-7	3⅛"	3⅛"	50	230	223	4-7	3⅛"	3⅛"	68	312	250
37M-2	2	2.0	16	10±	4	10	4½"	4½"	239	2,390	305	12-3	4½"	4½"	291	3,565	360
37M-3	3	3.0	26	20±	7	14-5	6⅝"	6⅝"	403	5,803	736	14-4	6⅝"	6⅝"	486	6,950	825
37M-4	4	4.1	36	30±	10	19	7⅝"	7⅝"	564	10,716	1169	18-9	7⅝"	7⅝"	678	12,713	1290
37M-5	5	5.2	46	40±	12	23	8⅝"	7⅝"	747	17,181	1652	22-8	9⅝"	9⅝"	919	20,769	2128
37M-6	6	6.3	56	50±	14	27-2	9⅝"	8⅝"	951	25,867	2285	26-7	10¾"	9⅝"	1173	31,260	2770
37M-7	7	7.3	66	60±	15	31	10¾"	8⅝"	1175	36,425	3218	31-3	10¾"	8⅝"	1388	43,375	3485
37M-8*	8	8.4	76	70±	16-6	34-9	11¾"	9⅝"	1417	49,241	4051	34-8	12¾"	11¾"	1696	58,682	4650

*Antennas with more than 8 rings quoted upon request.

1. Windloads based on 20 lbs. per square foot on projected areas of cylindrical surfaces with all sections considered round.
2. Power gains compared to half wave dipole.
3. Antenna assemblies on 1⅝" line are rated for power inputs at base of antenna up to 3 kw for a single ring array; 10 kw for four or more rings.
4. Antenna assemblies on 3⅛" line are rated for power inputs up to 3 kw per ring at base of antenna with maximum of 20 kw for seven or more rings.
5. Antennas for power inputs in excess of 20 kw incorporate the use of a "T" feed at center of array.

COLLINS

CREATIVE LEADER IN COMMUNICATION

COLLINS RADIO COMPANY • CEDAR RAPIDS, IOWA • DALLAS, TEXAS • BURBANK, CALIFORNIA

INTERNATIONAL SALES DIVISION, P.O. BOX 1891, DALLAS 21, TEXAS

Part No. 056-0645-00 10M—LP—4-61 Printed in U.S.A.