

Two CA2-FM Yagi Antennas
 Oriented at 20 & 150 degrees
 Frequency: 99.3 MHz
 Gain: 1.4 dBd (x 1.4)
 Vertical Polarization
 Horizontal plane Pattern



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800524

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	0.998	-0.02	1.38	1.37	180	0.955	-0.40	1.00	1.26
5	1.000	0.00	1.40	1.38	185	0.920	-0.73	0.67	1.17
10	0.987	-0.12	1.28	1.34	190	0.879	-1.12	0.28	1.07
15	0.937	-0.56	0.84	1.21	195	0.833	-1.59	-0.19	0.96
20	0.915	-0.77	0.63	1.16	200	0.768	-2.29	-0.89	0.81
25	0.902	-0.90	0.50	1.12	205	0.692	-3.20	-1.80	0.66
30	0.893	-0.98	0.42	1.10	210	0.589	-4.59	-3.19	0.48
35	0.866	-1.25	0.15	1.04	215	0.491	-6.18	-4.78	0.33
40	0.842	-1.50	-0.10	0.98	220	0.371	-8.62	-7.22	0.19
45	0.806	-1.88	-0.48	0.90	225	0.263	-11.59	-10.19	0.10
50	0.768	-2.29	-0.89	0.81	230	0.201	-13.94	-12.54	0.06
55	0.719	-2.87	-1.47	0.71	235	0.170	-15.41	-14.01	0.04
60	0.674	-3.43	-2.03	0.63	240	0.129	-17.76	-16.36	0.02
65	0.618	-4.18	-2.78	0.53	245	0.071	-22.92	-21.52	0.01
70	0.562	-5.00	-3.60	0.44	250	0.040	-27.92	-26.52	0.00
75	0.531	-5.49	-4.09	0.39	255	0.036	-28.94	-27.54	0.00
80	0.531	-5.49	-4.09	0.39	260	0.036	-28.94	-27.54	0.00
85	0.545	-5.28	-3.88	0.41	265	0.036	-28.94	-27.54	0.00
90	0.531	-5.49	-4.09	0.39	270	0.036	-28.94	-27.54	0.00
95	0.531	-5.49	-4.09	0.39	275	0.036	-28.94	-27.54	0.00
100	0.562	-5.00	-3.60	0.44	280	0.040	-27.92	-26.52	0.00
105	0.618	-4.18	-2.78	0.53	285	0.071	-22.92	-21.52	0.01
110	0.674	-3.43	-2.03	0.63	290	0.129	-17.76	-16.36	0.02
115	0.719	-2.87	-1.47	0.71	295	0.170	-15.41	-14.01	0.04
120	0.768	-2.29	-0.89	0.81	300	0.201	-13.94	-12.54	0.06
125	0.806	-1.88	-0.48	0.90	305	0.263	-11.59	-10.19	0.10
130	0.842	-1.50	-0.10	0.98	310	0.371	-8.62	-7.22	0.19
135	0.866	-1.25	0.15	1.04	315	0.491	-6.18	-4.78	0.33
140	0.893	-0.98	0.42	1.10	320	0.589	-4.59	-3.19	0.48
145	0.902	-0.90	0.50	1.12	325	0.692	-3.20	-1.80	0.66
150	0.915	-0.77	0.63	1.16	330	0.768	-2.29	-0.89	0.81
155	0.937	-0.56	0.84	1.21	335	0.833	-1.59	-0.19	0.96
160	0.987	-0.12	1.28	1.34	340	0.879	-1.12	0.28	1.07
165	1.000	0.00	1.40	1.38	345	0.920	-0.73	0.67	1.17
170	0.998	-0.02	1.38	1.37	350	0.955	-0.40	1.00	1.26
175	0.980	-0.18	1.22	1.33	355	0.980	-0.18	1.22	1.33

The Scala CA2-FM is a ruggedly built dipole reflector antenna, designed for professional FM transmit and receive applications.

Like all Scala antennas, the CA2-FM is made of the finest materials resulting in superior performance and long service life.

The CA2-FM may be used stand-alone or in stacked arrays for higher gain, increased side-lobe suppression, or custom azimuth patterns.

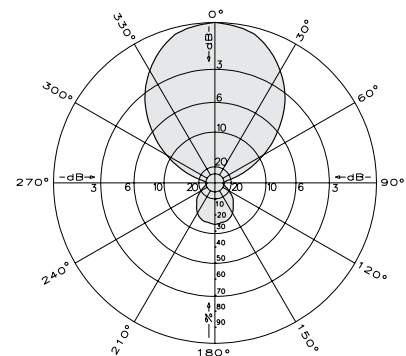
Specifications:

Frequency range	Any specified FM channel 88 to 108 MHz
Gain	4 dBd
Power gain	2.51
Impedance	50 or 75 ohms
VSWR	< 1.5:1
Polarization	Horizontal
Front-to-back ratio	>11 dB
Maximum input power	250 watts
Azimuth pattern	72 degrees (half-power)
Elevation pattern	80 degrees (half-power)
Connector	50Ω or 75Ω N female
Weight	5.7 lb (2.6 kg)
Dimensions	35.3 x 68.9 inches maximum (897 x 1750 mm)
Wind load Front	at 100 mph (160 kph) 67 lbf (257 N)
Wind survival rating*	120 mph (194 kph)
Shipping dimensions	70 x 6 x 5 inches maximum (1778 x 152 x 127mm)
Shipping weight	10 lb (4.5 kg) maximum
Mounting	For masts of 2.375 inches (60 mm) OD.

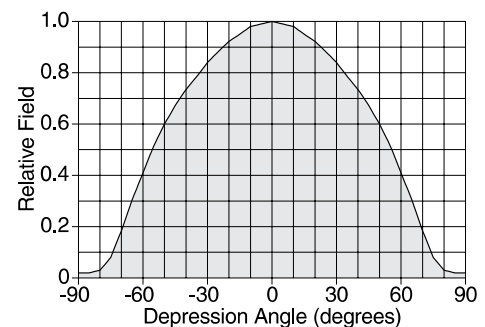
* Mechanical design is based on environmental conditions as stipulated in TIA-222-G-2 (December 2009) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.

Order Information:

Contact Scala Customer Service for detailed order information.



Azimuth pattern (E-plane - typical)



Elevation pattern (H-plane)



10747-B

