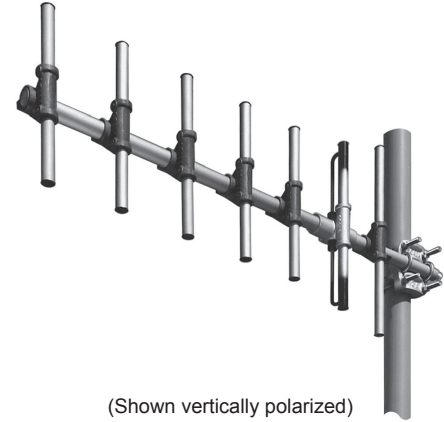


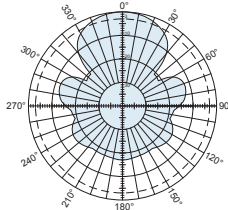
The Scala CA7 series yagi antennas are intended for use in professional fixed-station applications in the 406—512 MHz band. They feature:

- Internal balun and dipole feedpoint sealed within the boom assembly.
- Balanced feed system with no capacitors for superior performance in icing conditions.
- All aluminum components anodized for corrosion resistance.
- Heavy wall anodized aluminum pipe and tubing.
- Heavy duty aluminum castings and stainless steel hardware.
- Entire antenna at DC ground potential.
- Dual and quad arrays available.



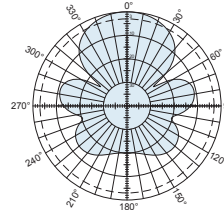
(Shown vertically polarized)

CA7-410 CA7-460
CA7-480 CA7-490



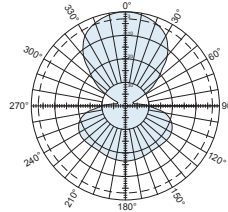
H-plane
Horizontal pattern - V-polarization
Vertical pattern - H-polarization

CA7-500



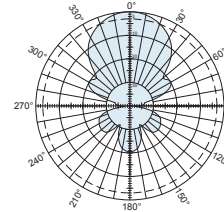
H-plane
Horizontal pattern - V-polarization
Vertical pattern - H-polarization

CA7-410 CA7-460
CA7-480 CA7-490



E-plane
Horizontal pattern - H-polarization
Vertical pattern - V-polarization

CA7-500



E-plane
Horizontal pattern - H-polarization
Vertical pattern - V-polarization

30048 subject to alteration

Specifications	CA7-410
Frequency range	406-420 MHz
Gain	10 dBd (12.15 dBi)
Impedance	50 ohms
VSWR	<1.35:1
Polarization	Horizontal or vertical
Front-to-back ratio	>18 dB
Maximum input power	250 watts (at 50°C)
H-plane beamwidth	53 degrees (half-power)
E-plane beamwidth	41 degrees (half-power)
Connector	N female
Weight	6.5 lb (2.95 kg)
Dimensions	44 x 16.5 inches (1118 x 419 mm)
Wind load	at 100 mph (161 kph)
Front	21 lbf (93 N)
Wind survival rating*	120 mph (193 kph)
Shipping dimensions	48 x 26 x 6 inches (maximum) (1219 x 660 x 152 mm)
Shipping weight	12 lb (5.4 kg)
Mounting	For masts of 2.375 inches (60mm) OD.

Specifications	CA7-460	CA7-480
Frequency range	450-470 MHz	470-490 MHz
Gain	10 dBd (12.15 dBi)	10 dBd (12.15 dBi)
Impedance	50 ohms	50 ohms
VSWR	<1.35:1**	<1.35:1
Polarization	Horizontal or vertical	Horizontal or vertical
Front-to-back ratio	>18 dB	>18 dB
Maximum input power	250 watts (at 50°C)	250 watts (at 50°C)
H-plane beamwidth	53 degrees (half-power)	53 degrees (half-power)
E-plane beamwidth	41 degrees (half-power)	41 degrees (half-power)
Connector	N female	N female
Weight	6.5 lb (2.95 kg)	6.5 lb (2.95 kg)
Dimensions	39.9 x 14.9 inches (1013 x 419 mm)	38.1 x 13.1 inches 968 x 333 mm)
Wind load	at 100 mph (161 kph)	at 100 mph (161 kph)
Front	21 lbf (93 N)	21 lbf (93 N)
Wind survival rating*	120 mph (193 kph)	120 mph (193 kph)
Shipping dimensions	48 x 26 x 6 inches (maximum) (1219 x 660 x 152 mm)	48 x 26 x 6 inches (maximum) (1219 x 660 x 152 mm)
Shipping weight	12 lb (5.4 kg)	12 lb (5.4 kg)
Mounting	For masts of 2.375 inches (60mm) OD.	For masts of 2.375 inches (60mm) OD.

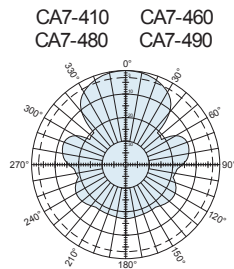
* Mechanical design is based on environmental conditions as stipulated in TIA-222-G-2 (December 2009) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. Contact KBU for further details.

**VSWR for 440-470 MHz <1.5:1

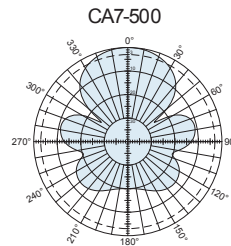
30048 subject to alteration

Specifications	CA7-490	CA7-500
Frequency range	480-500 MHz	490-512 MHz
Gain	10 dBd (12.15 dBi)	10 dBd (12.15 dBi)
Impedance	50 ohms	50 ohms
VSWR	<1.35:1	<1.35:1
Polarization	Horizontal or vertical	Horizontal or vertical
Front-to-back ratio	>18 dB	>18 dB
Maximum input power	250 watts (at 50°C)	250 watts (at 50°C)
H-plane beamwidth	53 degrees (half-power)	53 degrees (half-power)
E-plane beamwidth	41 degrees (half-power)	41 degrees (half-power)
Connector	N female	N female
Weight	6.5 lb (2.95 kg)	6.5 lb (2.95 kg)
Dimensions	37.6 x 12.2 inches (956 x 311 mm)	36.5 x 12.5 inches (927 x 318 mm)
Wind load Front	at 100 mph (161 kph) 21 lbf (93 N)	at 100 mph (161 kph) 21 lbf (93 N)
Wind survival rating*	120 mph (193 kph)	120 mph (193 kph)
Shipping dimensions	48 x 26 x 6 inches (maximum) (1219 x 660 x 152 mm)	48 x 26 x 6 inches (maximum) (1219 x 660 x 152 mm)
Shipping weight	12 lb (5.4 kg)	12 lb (5.4 kg)
Mounting	For masts of 2.375 inches (60mm) OD.	For masts of 2.375 inches (60mm) OD.

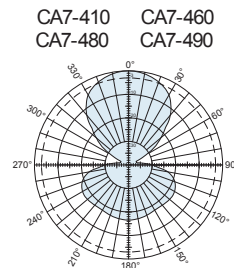
* Mechanical design is based on environmental conditions as stipulated in TIA-222-G-2 (December 2009) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. Contact KBU for further details.



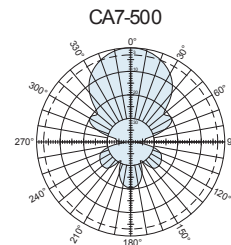
H-plane
Horizontal pattern — V-polarization
Vertical pattern — H-polarization



H-plane
Horizontal pattern — V-polarization
Vertical pattern — H-polarization

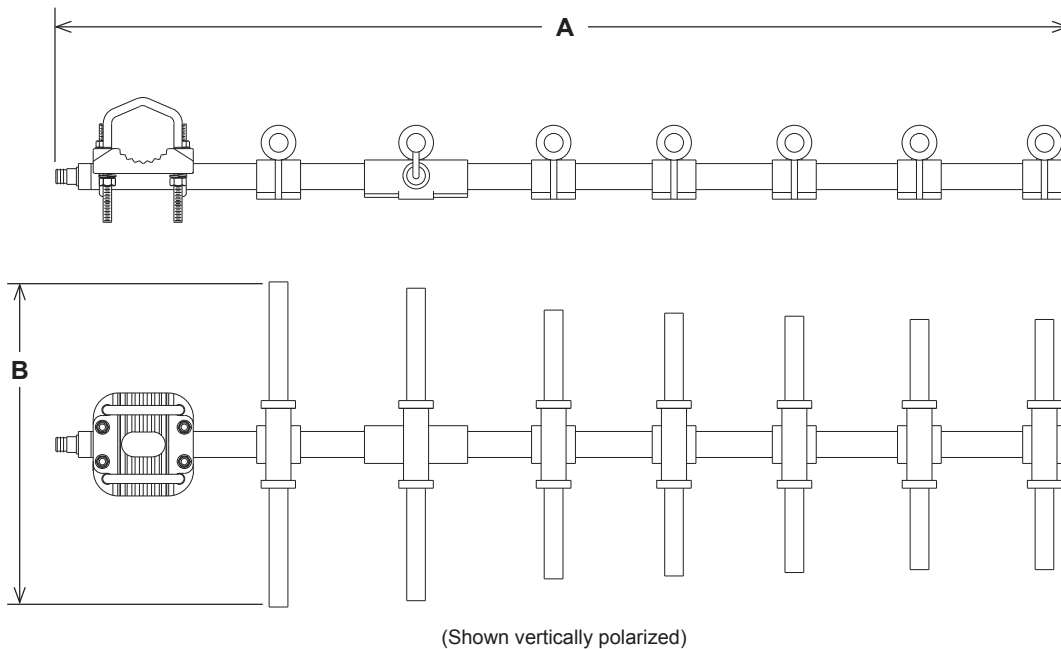


E-plane
Horizontal pattern — H-polarization
Vertical pattern — V-polarization



E-plane
Horizontal pattern — H-polarization
Vertical pattern — V-polarization

30048 subject to alteration



Dimensions

Model	A	B
CA7-410	44 inches (1118 mm)	16.5 inches (419 mm)
CA7-460	39.9 inches (1013 mm)	14.9 inches (378 mm)
CA7-480	38.1 inches (968 mm)	13.1 inches (333 mm)
CA7-490	37.6 inches (956 mm)	12.2 inches (311 mm)
CA7-500	36.5 inches (927 mm)	12.5 inches (318 mm)

Order Information

Model	Description
CA7-410	406—420 MHz Yagi antenna
CA7-460	450—470 MHz Yagi antenna
CA7-480	470—490 MHz Yagi antenna
CA7-490	480—500 MHz Yagi antenna
CA7-500	490—512 MHz Yagi antenna