



P 2 of 2

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Antenna P/N		MT-485028/B
Type		Base Station
Electrical		
Frequency Band	GHz	5.15-5.875
Gain	dBi (Min)	21.5 dBi @ 5.15-5.25 GHz 22 dBi @ 5.25-5.875 GHz
Polarity		Vertical or Horizontal (Linear)
Port to Port Isolation	dB (Min)	-
AZ/EL BW	Degree	9
ETSI		CS3
Sidelobe Level	dB (Max)	-25@-/+90 Deg
Cross Polarization Level	dB (Max)	-28
Front to Back Ratio	dB (Max)	-35
VSWR 50 Ohm		1.7:1
Maximum Input Power	Watt	6
Additional Features		Low Cost
Mechanical		
Size	mm	350x150x30
Weight	Kg (Max)	1.5
Connector		N-Type Female
Mounting Kit		MT-120019

Environmental

Temperature Range	-45 to +70 degree per IEC 68
Vibration	Random 4M3 per IEC 60721
Mechanical Shock	4M3 per IEC 60721
Humidity	95% per ETSI EN300
Water Tightness	Per IEC 529 IP67 (IP52 for some BTS antenn.
Salt Spray	500 hours per IEC 68
Solar Radiation	1000 hours per ASTM G53
Ice and Snow	25mm Radial
Wind Speed	160 Kmph Operation/220 Kmph Survival
Flammability	UL-94HB

Notes

All specifications are subject to change without notice
Preliminary specs are for antennas under development
Upon request MTI may provide the complete spec controlled document f



EUROPEAN ANTENNAS

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SECTOR ANTENNA

MODEL: SA17-60-5.5V/9501/RLC

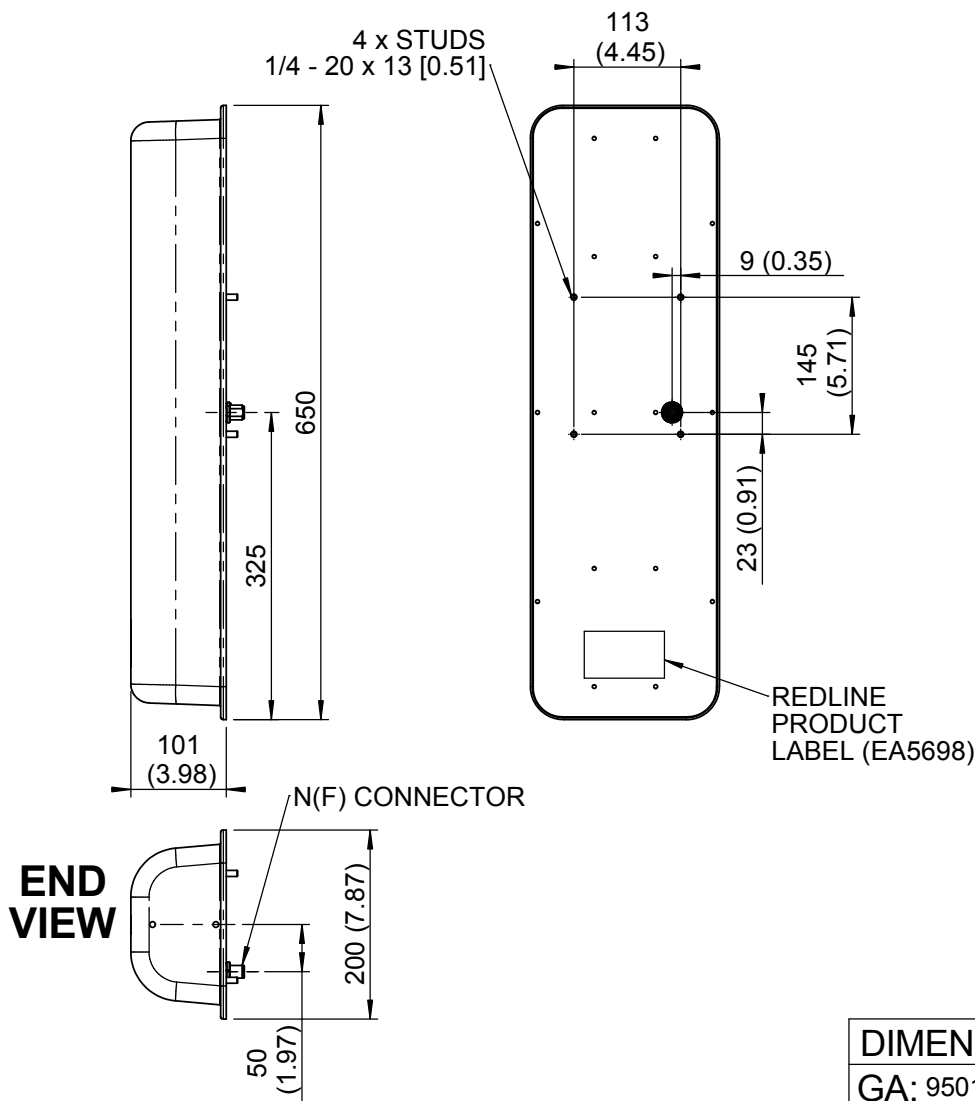
CONFORMS TO ETSI EN 302 085 V1.2.2 CLASS CS 2

FREQUENCY:	4.9 - 5.9 GHz	GAIN:	17.5 dBi Peak
POLARISATION:	Linear (Vertical)	BEAMWIDTH:	62° (Az.) x 6.5° (El.) Approx.
CROSS POLAR:	>20 dB	VSWR:	2 : 1 Max., 1.5 : 1 Typ.
ELECTRICAL TILT:	2°	FRONT TO BACK:	>40 dB
POWER RATING:	30 W	MASS:	5 Kg / 11.0 lbs
TEMPERATURE:	-40° to +60°C	WIND LOADING:	21.1 Kg / 46.4 lbs @ 100 mph
FINISH:	Grey Radome RAL 7035		

SIDE VIEW

REAR VIEW

PICTORIAL VIEW



DIMENSIONS: mm (inches)	H
GA: 9501 - 1/RLC	Issued: 160106

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European Antennas Ltd. has a policy of continuous development and therefore stress that the data contained on this sheet should be used for guidance only.



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SECTOR ANTENNA

MODEL: SA16-90-5.5V/9502/RLC

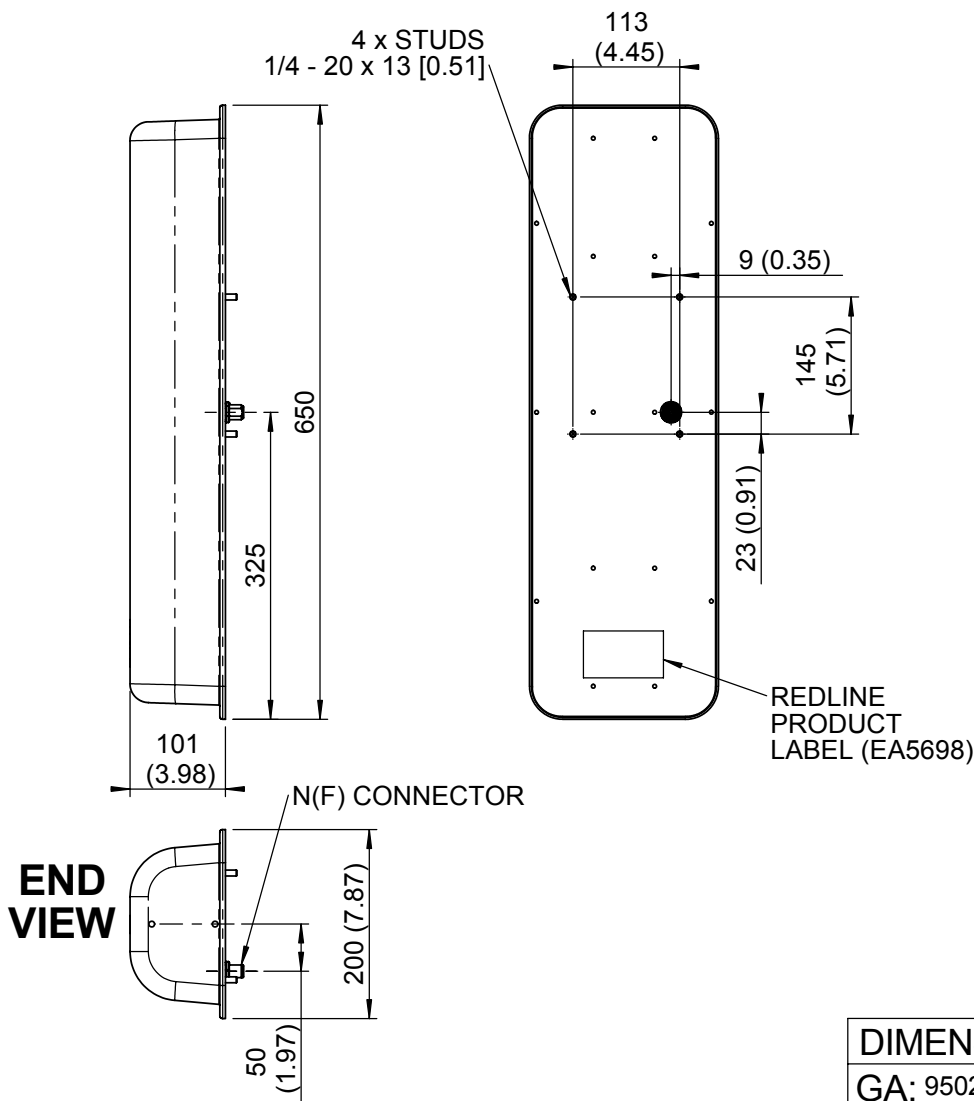
CONFORMS TO ETSI EN 302 085 V1.2.2 CLASS CS 2

FREQUENCY:	4.9 - 5.9 GHz	GAIN:	16.6 dBi Peak
POLARISATION:	Linear (Vertical)	BEAMWIDTH:	90° (Az.) x 6.5° (El.) Approx.
CROSS POLAR:	>20 dB	VSWR:	2 : 1 Max., 1.5 : 1 Typ.
ELECTRICAL TILT:	2°	FRONT TO BACK:	>40 dB
POWER RATING:	30 W	MASS:	5 Kg / 11.0 lbs
TEMPERATURE:	-40° to +60°C	WIND LOADING:	21.1 Kg / 46.4 lbs @ 100 mph
FINISH:	Grey Radome RAL 7035		

SIDE VIEW

REAR VIEW

PICTORIAL VIEW



DIMENSIONS: mm (inches)	H
GA: 9502 - 1/RLC	Issued: 160106

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SECTOR ANTENNA

MODEL: SA15-120-5.5V/9503/RLC

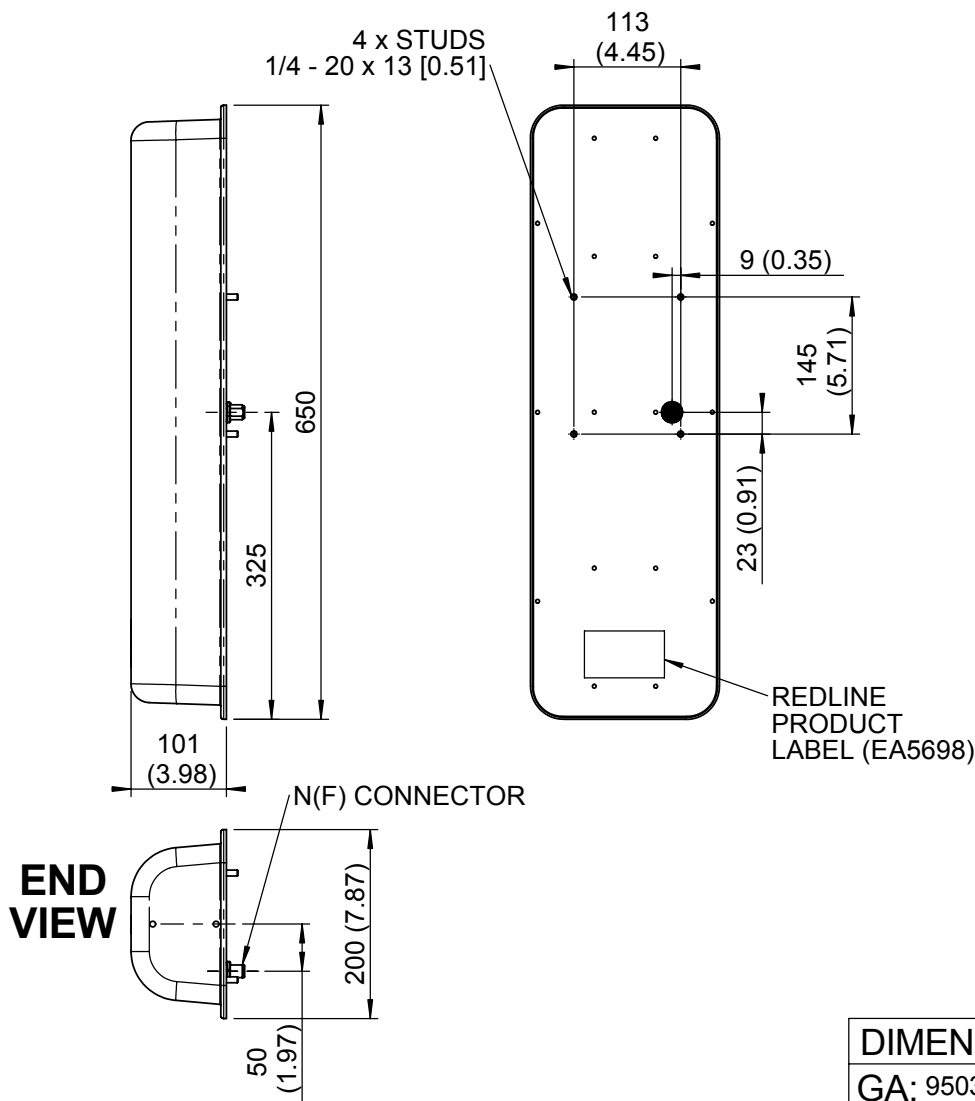
CONFORMS TO ETSI EN 302 085 V1.2.2 CLASS CS 2

FREQUENCY:	4.9 - 5.9 GHz	GAIN:	15 dBi Peak
POLARISATION:	Linear (Vertical)	BEAMWIDTH:	120° (Az.) x 6.5° (El.) Approx.
CROSS POLAR:	>20 dB	VSWR:	2 : 1 Max., 1.5 : 1 Typ.
ELECTRICAL TILT:	2°	FRONT TO BACK:	>25 dB
POWER RATING:	30 W	MASS:	5 Kg / 11.0 lbs
TEMPERATURE:	-40° to +60°C	WIND LOADING:	21.1 Kg / 46.4 lbs @ 100 mph
FINISH:	Grey Radome RAL 7035		

SIDE VIEW

REAR VIEW

PICTORIAL VIEW



DIMENSIONS: mm (inches)	H
GA: 9503 - 1/RLC	Issued: 160106

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ECO Series 3 - 5 Ghz Models
with N female



"PT" pigtail cable
option for all models

ECO Series Omni Antennas (Pat.Pend.) for all 2.4 - 5.8 GHz Systems

- Gain configurations from 5 dBi to 12 dBi
- Economical, weatherproof and durable design for both indoors and outdoors
- Standard mounting kit includes all hardware needed for pole or wall mount
- Optional drop ceiling mount, as well as mobile magnetic & trunk lip mount

Mobile Mark's new ECO Series Omni antennas are designed for all new data & broadband systems, including WiFi, 802.11 & 802.16 systems being planned. Using the latest PCB technology, these antennas improve highspeed broadband system performance in an economical package.

The Omni antennas provide uniform horizontal pattern and excellent frequency response. The ECO Series are free space antennas; no ground plane is required. Because they are also low profile and durable, they can even be used in a mobile application. Mounting hardware is available for a variety of uses. Standard hardware includes pole/wall mount.

The antenna element is enclosed in an extremely tough white fiberglass radome. The low profile radome is only "0.63 in (1.7 cm) diameter, and 0.9 in (2.3 cm) at the base. Windloading on the antenna is insignificant. The antenna terminates with an integrated N-female. A "PT" pigtail cable option also provides a direct coax into the antenna and can be outfitted with a variety of connectors, such as Reverse polarity TNC or SMA.

These antennas can withstand the harshest outdoor environments, yet are quite attractive for indoor use. The antennas are supplied with hardware for pole or surface mount. Other mount options include flush ceiling, drop ceiling and mobile mounts.

Model Numbers

Model	Description	Frequency
ECO5-2400PT	5 dBi Omni, Pigtail	2.4 - 2.5 GHz
ECO6-3500	6 dBi Omni	3.4 - 3.7 GHz
ECO9-3500	9 dBi Omni	3.4 - 3.7GHz
ECO6-4900	6 dBi Omni	4.9 - 5.0 GHz
ECO9-4900	9 dBi Omni	4.9 - 5.0 GHz
ECO6-5500	6 dBi Omni	5.0 - 6.0 GHz
ECO9-5500	9 dBi Omni	5.0 - 6.0 GHz
ECO12-5800	12 dBi Omni	5.7 - 6.0 GHz

add "PT" Pigtail Direct Cable Option with N male connectors, others available

Special configurations may be available upon request. Please consult factory for more information.

Specifications

Frequency/Gain:	See above	Mounting:	Pole or surface mount, mounts up to 2" (5cm)
Bandwidth@2:1 VSWR:	See above	Antenna Length:	
Impedance:	50 Ohm nominal	ECO5-2400PT	11 in (28.0 cm)
Max Power:	25 Watts	ECO6-3500	15 in (38.1 cm)
ECO5 Beamwidth:	30° EI, 360° Az	ECO9-3500	19 in (48.3 cm)
ECO6 Beamwidth:	25° EI, 360° Az	ECO6-4900	11 in (28.0 cm)
ECO9 Beamwidth:	14° EI, 360° Az	ECO9-4900	15 in (38.1 cm)
ECO12 Beamwidth:	7° EI, 360° Az	ECO6-5500	11 in (28.0 cm)
Lightning Protection:	External recommended	ECO9-5500	15 in (38.1 cm)
Max Wind Velocity:	100 mph, all models	ECO12-5800	19 in (48.3 cm)
Material:	White fiberglass radome,	Connector (standard):	N female direct,
Weight:	<0.75 lbs	PT Pigtail Option:	1ft cable & N male, others available
Antenna Diameter:	0.65 in (1.7 cm) Radome, 0.9 in (2.3 cm) at the base		