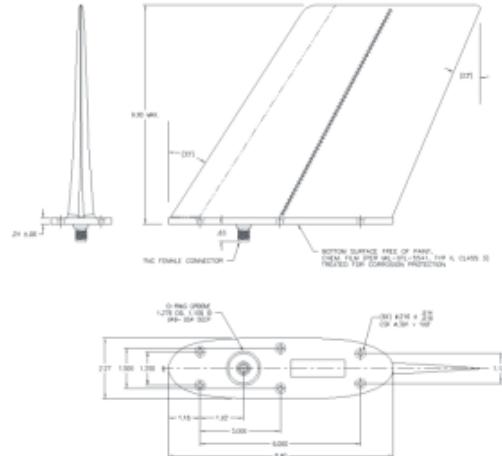


EXHIBIT 12A ANTENNA DETAILS

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ELT10-903-()

ELT-DT Blade Antenna



Specifications

Electrical

Frequency	See Chart
VSWR	See Chart
Polarization	See Chart
Radiation Pattern	See Chart
Impedance	50 Ohms
Power	10 Watts

Mechanical

Weight	1.2 lbs max (0.54 kg)
Height	9.0 in max (229 mm)
Material	Fiberglass
Color	White
Connector	TNC (Female)

Environmental

Speed Rating	600 Knots
Temperature	-55 °C to 70 °C
Side Load	8 psi min.
Vibration	4.12 g _{RMS}
Shock	Operational 6g _{pe} , 11ms Crash 500g _{pe} , 4ms 100g _{pe} , 23ms

Federal Specifications

Approvals

TSO-C126c (Pending)
Cospas Sarsat (Pending)

ELT10-903-() ELT-DT Blade Antenna, Single Connector

The ELT10-903-() series is a high performance, single-connector (TNC), externally mounted ELT/GPS blade antenna. The Global Navigation Satellite System (GNSS) includes coverage for GPS, Galileo and GLONASS BeiDou constellations. The antenna is constructed of fiberglass and epoxy materials, and the internal components are foamed in place to avoid problems incurred by aircraft shock and vibration. As additional assurance to survive direct lightning attachment, Dayton-Granger integrated lightning diverter strips into the antenna radome. The baseplate connector has an O-ring for pressurized cabins.

Applications

The antenna is designed to operate with First and Second Generation Autonomous Distress Tracking Beacons. The antenna offers coverage in the 121.5, 243 and 406.0 MHz ELT frequencies, as well as the GNSS frequency of 1176.45, 1207.14, 1227.60, 1268.5, 1561.1, 1575.42, and 1602.00MHz.

Series

ELT10-903: White

ELT10-903-1: Gray

Electrical Characteristics

Element	Frequency	VSWR	Polarization	Radiation Pattern
ELT	121.5 MHz	2.0:1 or better	Vertical	Omnidirectional
	243 MHz	2.0:1 or better	Vertical	Omnidirectional
	406.0 MHz	1.5:1	Vertical	Omnidirectional
GNSS	1176.45 MHz	2.0:1 or better	Vertical	Hemispherical
	1207.14 MHz	2.0:1 or better	Vertical	Hemispherical
	1227.60 MHz	2.0:1 or better	Vertical	Hemispherical
	1268.5 MHz	2.0:1 or better	Vertical	Hemispherical
	1561.1 MHz	2.0:1 or better	Vertical	Hemispherical
	1575.42 MHz	2.0:1 or better	Vertical	Hemispherical
	1602.00 MHz	2.0:1 or better	Vertical	Hemispherical

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