



**MODEL E-04C 121.5/406 MHz ELT**

**GPS CAPABLE ELT ACCEPTS ARINC 429, GARMIN AVIATION, BENDIX/KING AVIATION AND NMEA 0183 DATA**



**ELT CERTIFIED TO THE NEW**

**TSO-C126b STANDARD**

**BATTERY CERTIFIED TO**

**TSO-C142a LITHIUM BATTERIES**

**UN/DOT 38.3 LITHIUM BATTERIES**



**REMOTE AVAILABLE  
IN GRAY OR BLACK**



**FITS ARTEX AND KANNAD  
PANEL CUTOUTS**

**LIGHTNING PROTECTION**

**DC GROUNDED PER MIL-B-5087**

**WITHSTANDS DIRECT**

**LIGHTNING STRIKES**

**DESIGNED FOR CORPORATE AND  
COMMERCIAL AIRCRAFT**

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# MODEL E-04C 121.5/406 MHz ELT

## SPECIFICATIONS

### APPROVALS:

FAA / TRANSPORT CANADA  
TSO -C126b TSO-C91a TSO-C142a  
EASA  
ETSO 2C126 ETSO 2C91a TSO-C142a  
INDUSTRY CANADA  
1863A-E04AF  
BRAZIL ANAC/ANTEL  
TSO-C126 TSO-C142a

### TYPE:

TSO-C126b TSOC-91a AF

### FREQUENCY:

121.5 MHz & 406.037 MHz

### MODULATION:

406 MHz +/-2 kHz Bi-Phase L (16KOG1D)  
121.5 MHz +/- 6 kHz AM (3K20A3N)  
SWEPT DOWNWARD 1400 – 400 Hz  
REPETITION RATE 3 Hz  
MODULATION FACTOR  $\geq 90\%$   
DUTY CYCLE  $\geq 45\%$

### POWER AT TERMINAL 50 $\Omega$ LOAD:

121.5 MHz 20.7 dBm 50 HOURS@ -20C  
406.037 MHz 37.3 dBm 24.5 HOURS @ -20C

### PEAK EIRP WITH E-04.8 WHIP ANTENNA AND E-04.10.4 COAX CABLE:

121.5 MHz +22 dBm 160 mW  
406.037 MHz +39.79 dBm 13.7 W

### PEAK EIRP WITH S65-1231 BLADE ANTENNA AND E-04.10.4 COAX CABLE:

121.5 MHz +23 dBm 200 mW  
406.037 MHz +39.79 dBm 13.7 W

### OPERATING TEMPERATURE:

-20C TO +55C

### STORAGE TEMPERATURE:

-55C TO +85C

### CRASH ACTIVATION:

4.5 FpS +/- .5 FpS

### DIMENSIONS:

7.750" x 2.850" x 2.850"  
192 mm x 72 mm x 72 mm

### WEIGHT:

ELT AND BATTERY PACK 1.6 lbs .73kg  
ELT TRAY AND STRAPS .2 lbs .09kg  
REMOTE CONTROL (RCPI) 12.5oz 31g  
AUDIO ALERT INDICATOR 1.5 oz 43g

### WHIP ANTENNA PART NUMBER E-04.8

LENGTH 20.625" 524 mm SWEPT 20°

WEIGHT 2.1 oz 60g

IMPEDANCE 50 OHM NOMINAL

VSWR @ 121.5 MHz  $\leq 3.0:1$

VSWR @ 406 MHz  $\leq 1.4:1$

MAXIMUM RECOMMENDED AIRSPEED 260 KNOTS@ SEA LEVEL

### BLADE ANTENNA PART NUMBER S65-1231-1

HEIGHT 7.5" 190 mm SWEPT 20°

WEIGHT 23 oz 652g

IMPEDANCE 50 OHM NOMINAL

VSWR @ 121.5 MHz  $\leq 2.0:1$

VSWR @ 406 MHz  $\leq 1.5:1$

MAXIMUM RECOMMENDED AIRSPEED MACH 1 @ SEA LEVEL

### ELECTRONIC HARDWARE/FIRMWARE

BEACON ASIC LOAD FILE: V1.01

BEACON ASIC FIRMWARE: V1.0

DO-254 LEVEL E

## **MODEL E-04.0 LITHIUM BATTERY SPECIFICATIONS**

**APPROVALS:**

**FAA / TRANSPORT CANADA**

**TSO-C142a**

**ETSO-C142a**

**BRAZIL ANAC TSO-C142a**

**WEIGHT:**

**1.18 lbs .535 kg**

**AMP HOUR RATING:**

**7.75 Ah**

**NON RECHARGEABLE**

**TYPE:**

**Li-SO2**

**NON FLAMMABLE ELECTROLYTE**

**LITHIUM CONTENT:**

**9.8 GRAMS**

**VOLTAGE:**

**12 VOLTS**

**MAXIMUM DISCHARGE RATE:**

**2.5 AMPS**

**OPERATING TEMPERATURE:**

**-20C TO +55C**

**BATTERY LIFE:**

**5 YEARS WHEN USED WITH THE MODEL**

**E-04 ELT**

**DIMENSIONS:**

**5.750" x 2.850" x 2.850"**

**146mm x 72mm x 72mm**

**LIMITATIONS: ANY OTHER USE OF THIS BATTERY IN AIRCRAFT IS PROHIBITED UNLESS APPROVED BY ACK TECHNOLOGIES INC.**

**THE CONDITIONS AND TESTS FOR TSO APPROVAL OF THIS ARTICLE ARE MINIMUM PERFORMANCE STANDARDS. THOSE INSTALLING THIS ARTICLE, ON OR IN A SPECIFIC TYPE OR CLASS OF AIRCRAFT, MUST DETERMINE THAT THE AIRCRAFT INSTALLATION CONDITIONS ARE WITHIN THE TSO STANDARDS. TSO ARTICLES MUST HAVE SEPARATE APPROVAL FOR INSTALLATION IN AN AIRCRAFT. THE ARTICLE MAY BE INSTALLED ONLY ACCORDING TO 14 CFR PART 43 OR THE APPLICABLE AIRWORTHINESS REQUIREMENTS. LITHIUM CELL AND BATTERY SAFETY CONCERNS INCLUDE THE POSSIBILITY OF FIRE AND VENTING OF TOXIC GASES**

**SECTION 17 DO-160F/ED-14F ENVIRONMENTAL CATEGORIES**

<b>CONDITIONS</b>	<b>SECTION</b>	<b>DESCRIPTION OF TESTS CONDUCTED</b>
<i>Temperature and Altitude</i>	<i>4.0</i>	<i>Qualifies To Category D1</i>
<i>Temperature Variation</i>	<i>5.0</i>	<i>Qualifies To Category A</i>
<i>Humidity</i>	<i>6.0</i>	<i>Qualifies To Category C</i>
<i>Shock and Crash DO-204 Par. 2.3.4.1 DO-204 Par. 2.4.2.4</i>	<i>7.0</i>	<i>Not Tested Category Identified as X Shock Crash Safety</i>
<i>Vibration</i>	<i>8.0</i>	<i>Qualifies To Category R</i>
<i>Explosive Atmosphere</i>	<i>9.0</i>	<i>Not Tested Category Identified as X</i>
<i>Waterproofness</i>	<i>10.0</i>	<i>Qualifies To Category S</i>
<i>Fluids Susceptibility</i>	<i>11.0</i>	<i>Not Tested Category Identified as X</i>
<i>Sand and Dust</i>	<i>12.0</i>	<i>Not Tested Category Identified as X</i>
<i>Fungus</i>	<i>13.0</i>	<i>Not Tested Category Identified as X</i>
<i>Salt Spray</i>	<i>14.0</i>	<i>Qualifies To Category S</i>
<i>Magnetic Effect</i>	<i>15.0</i>	<i>Qualifies To Category Z</i>
<i>Power Input</i>	<i>16.0</i>	<i>Qualifies To Category B Additional Testing to 16.6.1.3 (b)</i>
<i>Voltage Spike</i>	<i>17.0</i>	<i>Qualifies to Category B</i>
<i>Audio Frequency Conducted Susceptibility</i>	<i>18.0</i>	<i>Qualifies To Category B</i>
<i>Induced Signal Susceptibility</i>	<i>19.0</i>	<i>Qualifies To Category BC</i>
<i>Radio Frequency Susceptibility</i>	<i>20.0</i>	<i>Not Tested Category Identified as X</i>
<i>Radio Frequency Emissions</i>	<i>21.0</i>	<i>Qualifies To Category H</i>
<i>Lightning Induced Transient susceptibility</i>	<i>22.0</i>	<i>Not Tested Category Identified as X</i>
<i>Lightning Direct Effects</i>	<i>23.0</i>	<i>Not Tested Category Identified as X</i>
<i>Icing</i>	<i>24.0</i>	<i>Not Tested Category Identified as X</i>
<i>Electro-Static Discharge</i>	<i>25.0</i>	<i>Not Tested Category Identified as X</i>
<i>Fire, Flammability DO-204 Par. 2.3.7.1</i>	<i>26.0</i>	<i>Not Tested Category Identified as X Flame Test</i>

**Additional DO-204A Testing**

DO-204A	Par 2.3.2.1	Low Temperature Battery Life
DO-204A	Par 2.3.2.2	High Temperature Battery Life
DO-204A	Par 2.3.2.3	Frequency Stability With Temperature Gradient
DO-204A	Par 2.3.2.4	Thermal Shock
DO-204A	Par 2.3.2.5	VSWR
DO-204A	Par 2.3.2.6	Self Test
DO-204A	Par 2.3.1.1	Low Temperature Activation
DO-204A	Par 2.3.1.2	High Temperature Activation
DO-204A	Par 2.3.1.3	Altitude
DO-204A	Par 2.3.1.4	Decompression
DO-204A	Par 2.3.1.5	Overpressure
DO-204A	Par 2.4.8.1	RF Intermodulation