
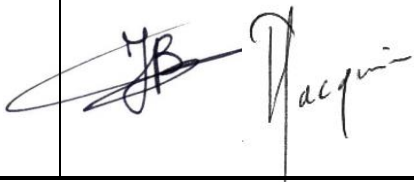





INTERFACE CONTROL DOCUMENT

AIRCRAFT VOLTAGE REGULATOR

P/N : 6141700 AMD D

Diffusion	Interne à JPC				Externe à JPC	
	1 ex →				1 ex → All customers	
Version	Document	Issue.	Date	Last evolution		Pages changed
	614 17 00 <u>D</u> ICD 01	<u>2</u>	<u>10/06/2022</u>	<u>See page 2</u>		<u>All</u>
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1 General

1.1 Generalities

This document defines the electrical, mechanical and thermal interfaces for “Aircraft Voltage Regulator” P/N [6141700 amd D](#).

1.2 Destination

Voltage charge regulator for light aircraft.

1.3 Description

The electronic system includes 3 functions:

- Voltage charge regulation from 13.5V to 13.75V
- Low voltage control with discret output for warning light if $V < 12.5V$
- Overvoltage by output locking if $V > 17V$

This design offers an extremely high reliability, a high resistance to shocks and vibration.

2 Physical, electrical and optical features

2.1 Physical features

- Individual weight : 0.14 kg (0.315 pound)
- Dimensions : see 2D drawing in annex
- Envelope color : Aluminum with [SURTEC 650](#) protection

2.2 Operating temperature

- Positive temperature : +70°C
- Negative temperature : - 45°C

3 Network



3.1 *Electrical interface*

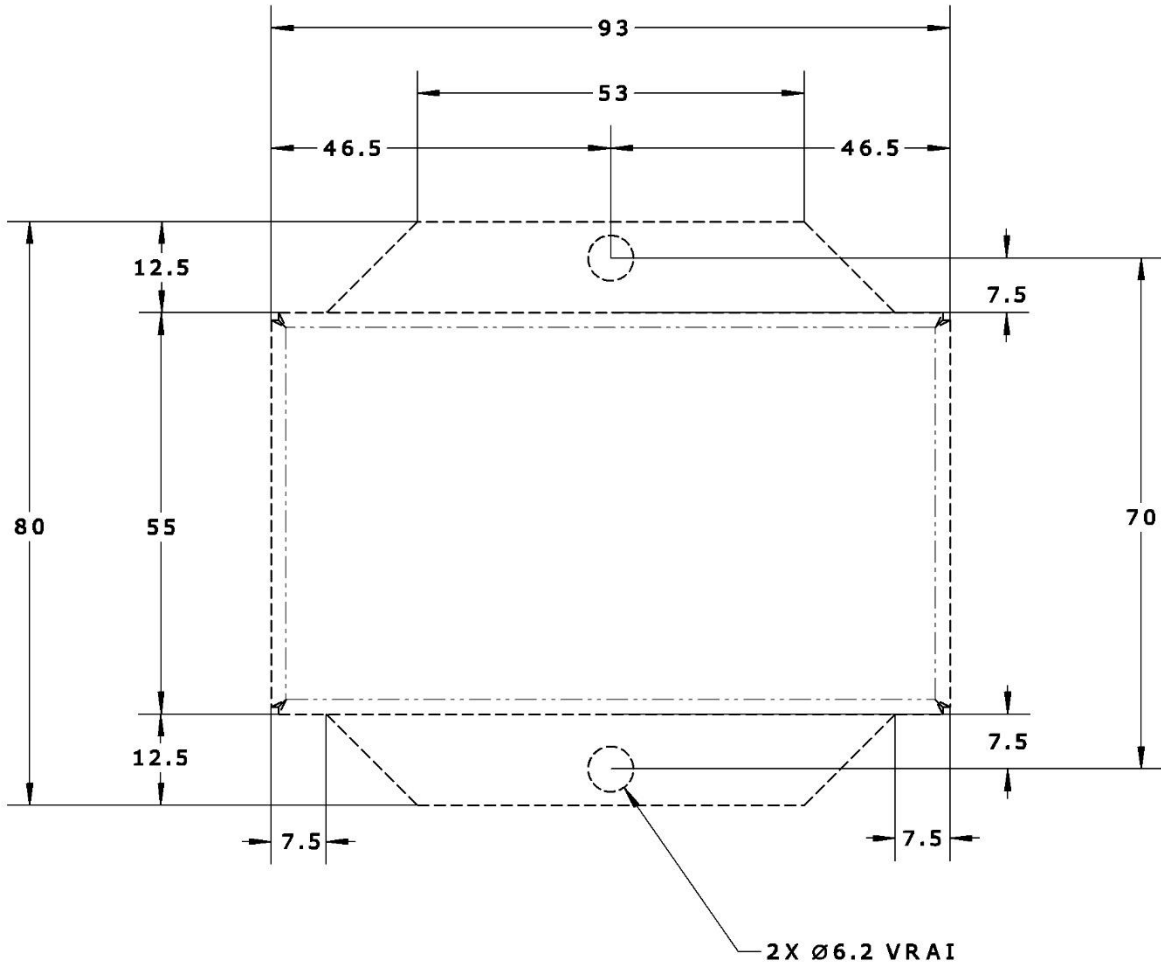
AMP HE 15 mat n lock connector (5 point)
(old wiring)

- Point 5: red wire : + input from battery
- Point 4: black wire : - input from battery
- Point 3: blue wire : Output to alternator excitation
- Point 2: green wire : + input for warning light low voltage
- Point 1: white wire : + output for warning light low voltage

3.2 *Electrical power supply*

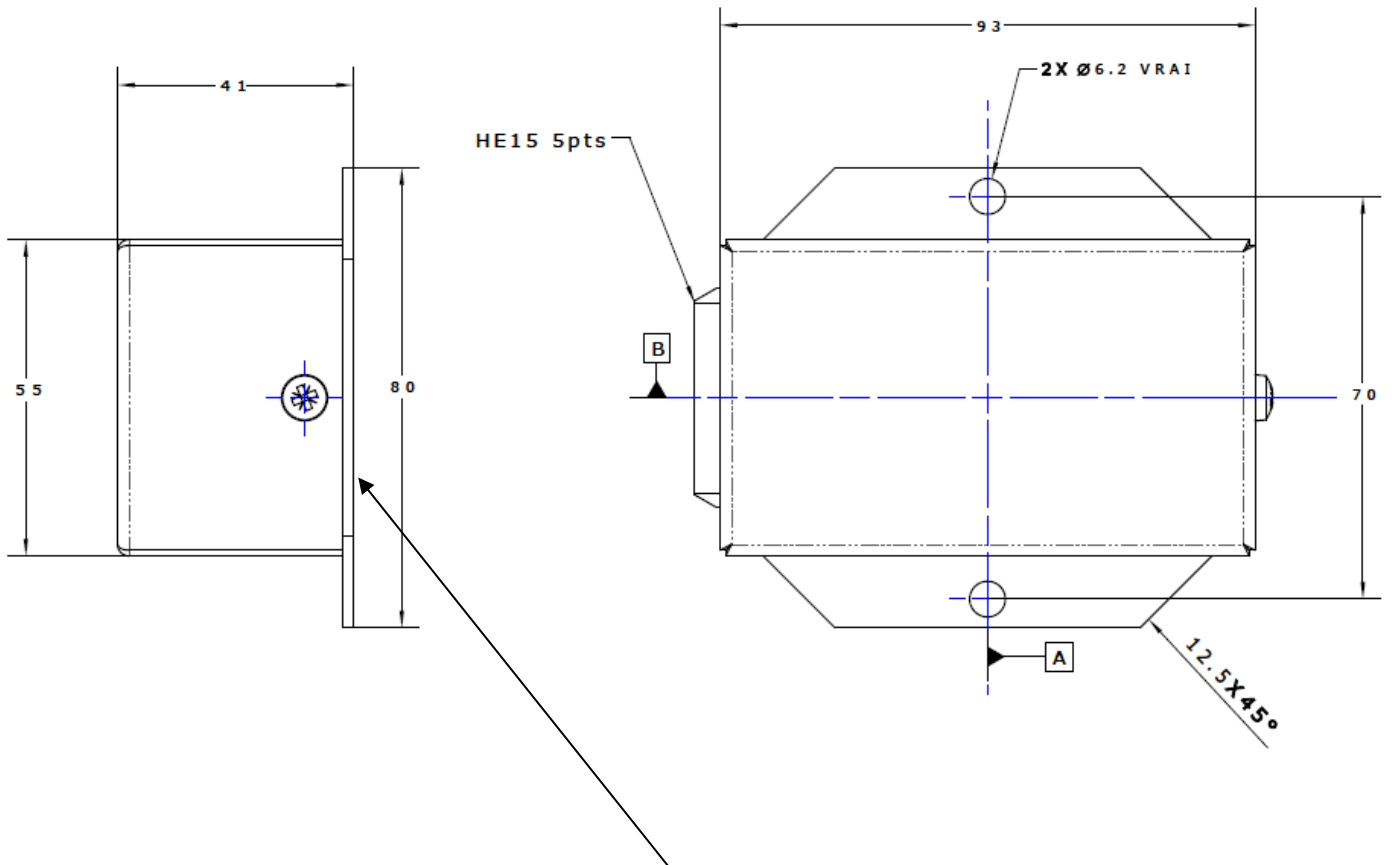
Supply Voltage : 14 VDC
Output max current (alternator excitation) : 3A

3.3 Mechanical interface



4 Annexes

2D Drawing



Electrical bonding in all surface
([SURTEC 650](#))