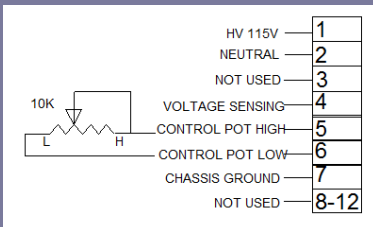




5V AC Lighting Controller

6711 Series



This series of lamp dimmers is powered from the 115V 400 Hz aircraft power supply and is available in three versions to cater for loads up to 300 VA, dependent on cockpit requirements. Using identical front stages of phase elimination techniques, each dimmer has a different output transformer to handle the three output loads.

The dimmers may be mounted remotely from the cockpit command (10K - 0.25W min) potentiometer. Since in modern commercial airliners, the distance between the dimmer and lamp load may involve noticeable volt drops down the supply lines, the dimmer has a remote sense facility such that when the command potentiometer signals a voltage requirement at the instruments, the dimmer will increase the voltage output proportionately to cater for the volt drop in the line.

When confronted by a short circuit, the dimmer automatically current limits and resumes normal operation on removal of the short. It will, however, allow enough current to blow a failing lamp.

Application has been in the BAe 146 Commercial Airliner Cockpit Lighting.

Although intended for 5V AC loads, versions can be supplied with outputs of 0 - 28V RMS at 400Hz.

Features

- Operating Temperature: -40°C to +70°C
- EMC Compatibility: Tested to BS3G100
- Input Voltage: 115V AC to BS3G100 Part 3
- Output Voltage: Nominally 0.75V to 5V RMS continuously variable
- Output Frequency: 400Hz
- Efficiency: 85% Typical
- Dimensions:
 - 50VA - 63 x 99 x 90mm
 - 150VA - 76 x 99 x 90mm
 - 300VA - 101 x 99 x 90mm
- Weight:
 - 50VA - 1.16kg
 - 150VA - 1.57kg
 - 300VA - 2.11kg



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Printed in England

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