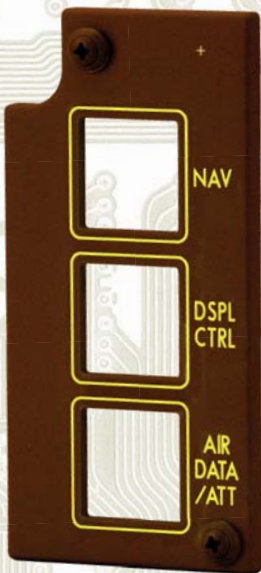




## LIGHTED PANELS



### **Spectralux – your most dependable source for lighted panels.**

First and second-tier aerospace companies have been turning to Spectralux for lighted panel solutions for over 30 years. We design, build and test our products with an emphasis on total system performance. This means right-the-first-time products that consistently meet your expectations.

We provide lightplates and keyboards using the most commonly accepted light sources: light-emitting diode (LED) and incandescent. And Spectralux technology is available in glareshield-mounted floodlights that provide low-power, low-profile solutions to instrument panel area lighting requirements.

We can provide lightplates and keyboards that meet the requirements of MIL-L-85762 for NVG-compatible lighting, which includes conversion of keyboards at a later date. And sunlight readable annunciators can be incorporated into any design.

### **Innovative solutions. Unequaled support.**

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## LIGHTPLATE SPECIFICATIONS

### PANEL MATERIAL

- Injection molded thermoplastic or machined sheet acrylic per MIL-P-5425

### FINISH COLOR

- Conforms to MIL-STD-595.  
Custom colors available

### PANEL MARKING

- per SAE-AS18012

### CIRCUIT BOARD MATERIAL

- Metal-clad, laminated and reinforced sheet per IPC-4101

### CONNECTOR

- MS90335 or commercial equivalent

### LIGHT SOURCES

- Incandescent or light-emitting diodes (LED)

### NVG COMPATIBILITY

- Can be designed to meet the requirements of MIL-L-85762

### STRAY LIGHT

- Not visible at  $\pm 90^\circ$  to normal

### INSULATION RESISTANCE

- 500 VRMS

### ENVIRONMENTAL

- Per SAE-AS7788 or RTCA DO-160

### WORKMANSHIP

- Per IPC-A-610, Class 2 or better

## KEYBOARD SPECIFICATIONS

### BEZEL

- Aluminum, acrylic or molded thermoplastic

### KEYCAPS

- Acrylic, molded thermoplastic or silicone rubber

### SWITCH FUNCTION

- Single pole, single throw, momentary, normally open

### SWITCH FEEL

- Snap-action, positive tactile response

### ACTUATION FORCE

- 9, 14, 18 and 28 ounce nominal forces are standard

### LIFE

- Tested to 1,000,000 cycles

### CONTACT BOUNCE

- 5 milliseconds maximum

### CONTACT RATING

- 100 milliamps at 28 VDC (resistive)

### CIRCUIT BOARD

- Designed per IPC-D-275

### INSULATION RESISTANCE

- 500 VRMS

### LIGHT SOURCES

- Incandescent or light emitting diodes (LED)

### NVG COMPATIBILITY

- Can be designed to meet the requirements of MIL-L-85762

### OPERATING TEMPERATURE

- $-40^\circ\text{C}$ . to  $+71^\circ\text{C}$ ., typical

### EMI

- Per application requirements

### ENVIRONMENTAL

- Per MIL-STD-202 or RTCA DO-160

### WORKMANSHIP

- Per IPC-A-610, Class 2 or better