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General

The Cockpit Speaker Amplifier is a component of an aircraft communications subsystem that integrates analog audio signals. The Cockpit Speaker Amplifier provides amplified audio signals to the cockpit speakers. The CSA operates as a light weight, airborne component of a shared-channel, internal aircraft communication system. The CSA will support two separate audio channel inputs and provide 2 separate speaker outputs. The Cockpit Speaker Amplifier provides signal level amplification and power filtering without selections and control functions.

Specifications:

- Bandwidth: 300 to 5000 Hz.
- Crosstalk: 100dB isolation at 1000Hz
- Amplification: 34.5 dB with 8Ω speaker impedance
- THD: < 7 %
- Output Noise: < 15mV RMS measured with 10 kHz filter
- Voltage Input: 28VDC
- Current: < 1 Amp.
- Weight: 2 pounds
- Convection Cooled
- Dimensions: 6.75L X 5.87W X 1.94H inches
- Connector: D38999/20WC98PN

Environmental Specifications:

- *Limit Acceleration: Mil Std 810C, Method C Method 513.2 Proc. II*
- *Ultimate Acceleration: Mil Std 810C Method 513.2 Proc. I*
- *Vibration: 4.93 GRMS from 5—500 Hz*
- *Temperature/Altitude: Mil Std 810C Method 504.1*
- *Humidity: Mil Std 810E Method 507.3 Proc. I*
- *Shock: Crash Safety*
- *Salt Atmosphere: Mil Std 810E Method 509.3*
- *Sand And Dust: Mil Std 810E 510.3 Proc. I & II*
- *Explosive Atmosphere: Mil E 5400*
- *Lightning Protection: DO160E Sect.22 Cat. J*
- *EMI: Mil Std 461E*
CE101, CE102, CS101, CS114, CS115, CS116, RE101, RE102, RS101, RS103
- *Transient Testing: Mil Std 704A*

