

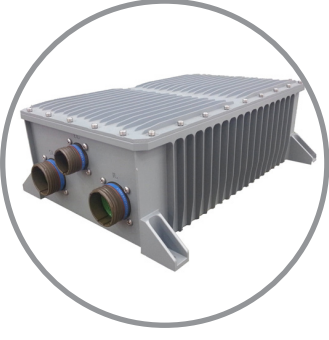
AVCC

ACTIVE VIBRATION CONTROL COMPUTER

MODULAR, OPEN ARCHITECTURE
DESIGN

FIXED, ROTARY WING PLATFORM
QUALIFIED





AVCC

ACTIVE VIBRATION CONTROL COMPUTER

AVCC is a part of Active Vibration Control (AVC) System. The AVCC performs the input/output and control processing functions of AVC System. The AVC System incorporates aircraft sensors, a dedicated computer (AVCC), an Electronic Unit (EU), and Force Generators (FGs) to attenuate the vibration induced by the rotor system.

The AVC system prevents vibration levels in the aircraft not to exceed the specified limits. To reduce vibration in the cockpit, additional airframe vibratory loads generates force out of phase with the main rotor induced vibrations.

Accelerometers and rotor speed sensors provide airframe vibration and rotor speed to the AVCC. The AVCC then generates actuator commands that are sent to the EU, which generates the current drive signals needed to control the airframe mounted FGs, which produce the canceling forces.

General Specifications

- Sensor input/output processing
- Vibration control processing
- Generating Actuator commands

Technical Specifications

- 28 VDC powered

Interfaces

- ARINC 429 Tx / Rx interfaces
- Serial line (RS-422) interfaces
- Discrete I/O interfaces
- Rotor speed sensor inputs
- Accelerometer inputs

Qualifications

- MIL-STD-810 / DO-160E
- MIL-STD-704
- MIL-STD-461

Environmental Conditions

- Operating Temp. and Altitude: -40°C / +71°C, 20.000 ft.
- Storage Temperature: -54°C / +85°C

Physical Specifications

- Dimensions: 108.5 mm(H) x 240.4 mm(W) x 306.8 mm(D)
- Weight: < 3.5 kg