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VXI-5410C-129-1
Eight Isolated Multiplying Digital-to-Analog Channels

- Programmable voltage: ±10 and ±16.384 VDC
- 16-bit monotonic
- Remote Sensing
- Each output can supply 50 mA
- Internal or external trigger

GENERAL

The Model 5410C-129 provides eight isolated multiplying digital-to-analog channels (DACs). Each channel can be programmed to function either as a standard D/A or as a multiplying D/A. In the standard D/A mode, any required output voltage between ±10 VDC or ±16.384 can be programmed. Programming is accomplished in Control Intermediate Interface Language (CIIL) using an embedded TMA. The unit is designed to meet the requirements of the MATE STD 2806763.

A confidence test command will cause relays to disconnect the outputs from the outside and to interconnect the D/A's with an internal DVM. The microprocessor will then program a series of voltage outputs that will verify converter performance. This test will be completed within 80 seconds and will provide 95% fault detection to the module level.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Range</td>
<td>±10 volts peak</td>
</tr>
<tr>
<td>Resolution</td>
<td>16 bits</td>
</tr>
<tr>
<td>Output Impedance Maximum (DC)</td>
<td>&lt;0.1W</td>
</tr>
<tr>
<td>Short Circuit Duration</td>
<td>Continuous</td>
</tr>
<tr>
<td>Available Output Drive Current</td>
<td>30 mA per channel</td>
</tr>
<tr>
<td>Slew Rate (30 mA load)</td>
<td>8 V/us</td>
</tr>
<tr>
<td>Monotonicity</td>
<td>16 bits. (Guaranteed 0°C to 70°C)</td>
</tr>
</tbody>
</table>
Settling time 750 µs max. Does not include message transfer

Analog input DC ±10 V; or AC ±10 V peak to 3.5 kHz sine wave. Input Z: 10 kW min. The returns of all analog inputs are isolated

Multiplication Four quadrant. Vout=K x Vin K is programmable from -1²K²1

AC Feedthrough -60db typ @ 3500 Hz

Phase Throughput @ FS -1.3 typ° @ 3500 Hz

Multiplying Accuracy at 25°C ±0.015% FSR (20 V)

Self-test Accuracy ±3% of full scale range

Trigger Output voltages of each channel, can be programmed to be either continuous or initiated via the Trigger bus.

Trigger capability TTLTRG0 to TTLTRG7

Calibration Measure output and store calibration factors in on-board memory

GENERAL SPECIFICATIONS

Operating temperature -10°C to +65°C

Storage temperature -40°C to +85°C

Relative humidity to 90% RH

Shock Designed to meet 15G, 11 ms

Vibration Designed to meet MIL-T-28800C for class V equipment.

Operating altitude 10,000 feet

Non-operating altitude 40,000 feet

Power requirements ±24 VDC at 250 mA (Full Load)
+12 VDC at 170 mA
+5 VDC at 600 mA

Size "C" size (13.4” x 9.2”) with 1.2” pitch

Weight 5 lbs.

Acoustic noise None

Calibration intervals 1 year

Max. corrective time 0.5 hours. No preventive maintenance is required.

Connectors All connections are via front panel "D" connectors. Mating connectors are not supplied.

Cooling External cooling air is required.
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