



TECHNICAL DESCRIPTION

Model 6135A
AIRBORNE TIME CODE DISPLAY
(Miniature)

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(Miniature)**

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ITS MODEL 6135A TIME CODE DISPLAY

1.0 GENERAL

The ITS Model 6135A Time Code Display is a compact unit, designed for airborne applications, that decodes and displays the IRIG B Serial Time Code. The unit displays the time as Hours, Minutes and Seconds on an LED display.

The 6135A is housed in a 3.55" wide x 0.95" high x 2.0" deep flange mountable aluminum enclosure. The display intensity is user adjustable via a front panel selector switch. The unit is powered by 16 to 38 VDC.

2.0 CHARACTERISTICS

2.1 TIME DISPLAY MODE

The 6135A displays the applied time code or in the absence of an applied signal, an internal clock. Display is six digits, HH:MM:SS.

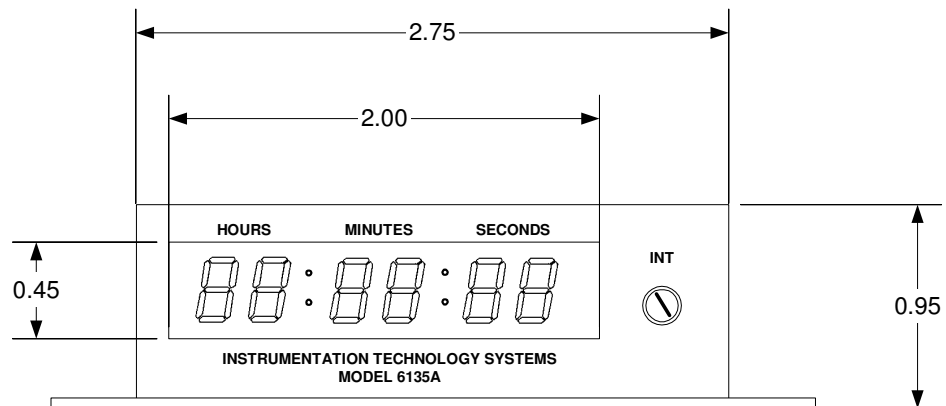
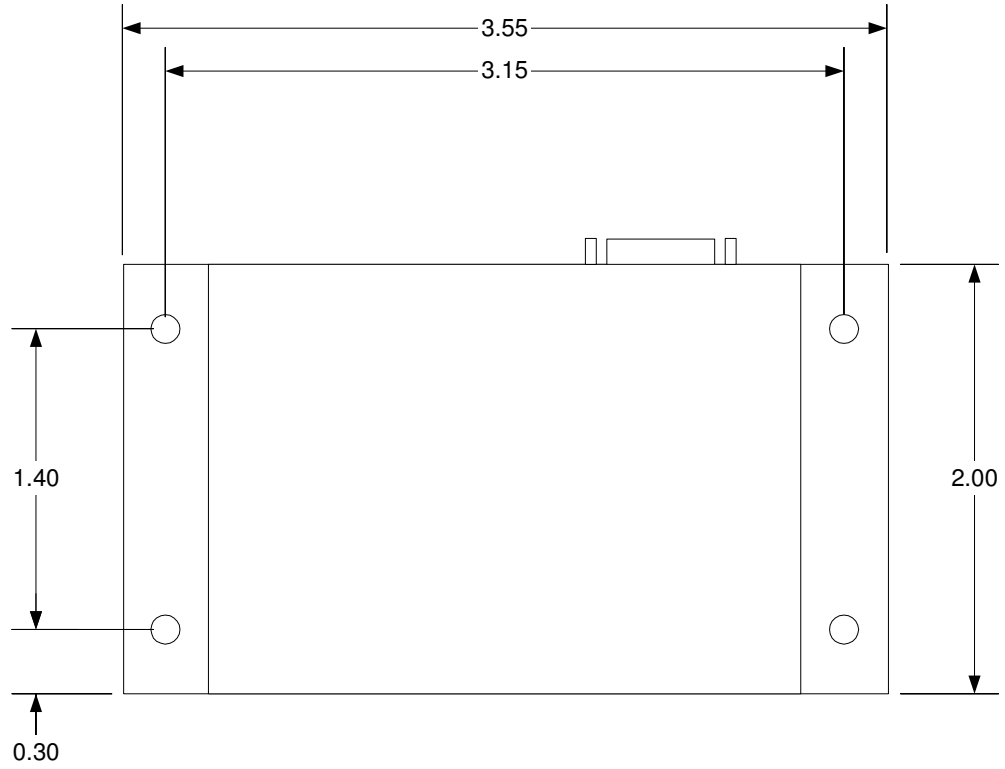
If there is a loss of serial time code input, colons will flash at a 1Hz rate to alert the operator that the 6135A is operating on the internal clock.

3.0 MECHANICAL CONFIGURATION (See Figure 1)

The 6135A is housed in a flange mountable aluminum enclosure, 3.55" wide x 0.95" high x 2.0" deep (not including rear panel connector). All circuitry is on a SMT printed wiring assembly. All Connections to the PWA are via internally mounted connectors.

Power and the serial time code signal are applied via a single rear panel D connector. The unit is designed to meet Safety-Of-Flight requirements.

Figure 1
Model 6135A Enclosure



4.0 CONTROLS AND CONNECTORS

- 4.1 Intensity Eight Position Rotary Switch - Provides means to control the display intensity. Screwdriver adjustment allows for eight intensity levels.
- 4.2 Time Code Input 9 pin D Connector - Receives Serial IRIG Time code signal. (Connector shared with Power In)
- 4.3 Power In 9 pin D Connector - Receives 28 VDC aircraft power (16-38 VDC). (Connector shared with Time Code In)

<u>Signal</u>	<u>Pin</u>
28 VDC IN	4
28 VDC return	5
IRIG B IN	1
IRIG B return	2

5.0 SPECIFICATIONS

5.1	Time Code Input	IRIG B serial time code IAW IRIG Standard 200-98, Input level .5 to 15 volts peak to peak with modulation ratio from 2:1 to 6:1.
5.2	Display	Six characters, 7 segment LED, red. Character height: 0.3 inches. Note: Green character display also available 6135A-G
5.3	Internal Reference	Temperature compensated crystal oscillator (TCXO) $\pm 2 \times 10^{-6}$. (Active in absence of time code input)
5.4	External Power	16 to 38 volts DC. 1.8 watts max.
5.5	Package and Environment	
	Temperature:	0 to 55 degrees C
	Humidity:	95% non-condensing.
	Size:	3.55 inches wide x 0.95 inches high x 2.0 inches deep (not including connector). Flange mountable aluminum enclosure.
	Weight:	3 ozs.
	Color:	Black with clear textured overcoat.
	Construction:	Designed to meet Safety-Of-Flight requirements.