

DESTRUCT DECODER

MODEL HCCD-101



SUPPLYING HIGH PERFORMANCE FLIGHT INSTRUMENTATION, RF/MICROWAVE ASSEMBLIES, POWER AMPLIFIERS, IFF AND DATA ACQUISITION SYSTEMS FOR SEVERE ENVIRONMENTS.

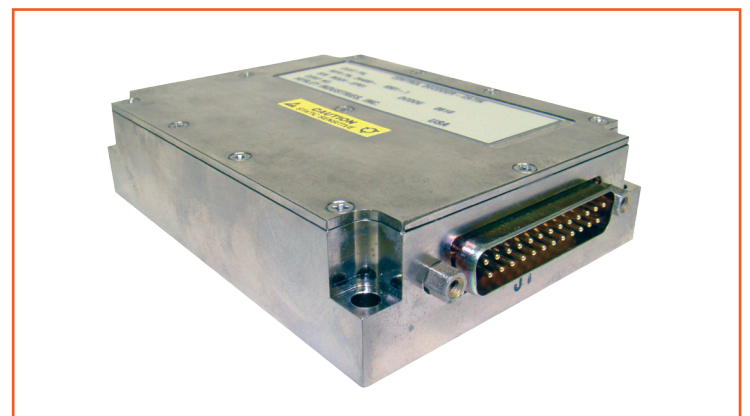
DESCRIPTION

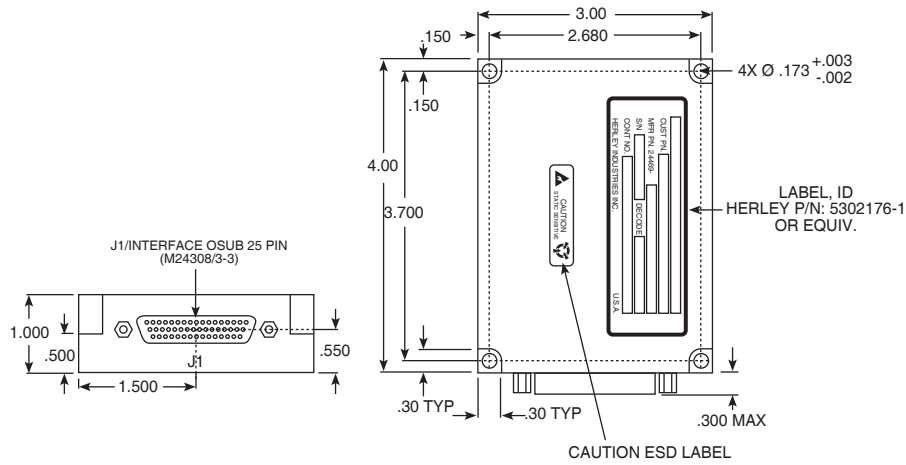
The HCCD-101 Destruct Decoder is an six channel command and control IRIG tone decoder. This unit accepts audio from an external receiver and provides decoding for eight channels. The HCCD-101 provides high current output with pins fully isolated from DC return and chassis.

The HCCD-101 is compact and desirable for those applications where size and weight is at a premium. This design utilizes the latest in modern devices and circuitry. It is all solid-state to provide a reliable product with extremely long operating life.

FEATURES

- Decodes 6 tones
- Small, less than 12.1 cubic inches
- Lightweight, less than 16 ounces (450 grms)
- All solid-state design
- High current output
- Full DC isolated from chassis and DC return





ELECTRICAL

- Tone Channels: The control decoder is comprised of the following typical channels:

Tone (IRIG Designation)	Frequency (Hz)
10	22170
11	25010
12	28210
13	31830
14	35900
15	40490

- Channel Bandwidth: 2 dB ±1% minimum, 20 dB ±4% maximum
- Input Level: 0.5 ±0.05 Vp-p channel threshold
- Input Voltage: +24 to +32 VDC
- Input Current: 250 mA maximum
- Output Current: TTL Levels w/ 10 mA source or sync
- Tone Channels: Isolation of more than 1Mohms from command output to DC return and chassis

PHYSICAL

- Size: 4.0 x 3.0 x 1.0 inches (10.6 x 7.6 x 2.5 cms)
- Volume: 12 cubic inches maximum
- Weight: 16 ounces (454 grams) maximum
- Duplexer: Built-in circulator, 4 port ferrite
- Connector: M24308/9-3

ENVIRONMENTAL

- Temperature, Operating: -54°C to +77°C
- Altitude: Sea level to 100,000 ft
- Humidity: Up to 100% relative in all operating environments
- Vibration: 10 g's rms, 20 to 2000 Hz in all axis
- Shock: 20 g's for 11 µsecs in any axis
- Electromagnetic Interference: Designed to meet the requirements of MIL-STD-461B

PRODUCT NUMBERS

- P/N 6501-1 - Standard unit

J1 POWER CONN.		
PIN		FUNCTION
1		28 VOLT POWER
	14	28 VOLT POWER
2		28 VOLT RETURN
	15	28 VOLT RETURN
3		N/A
	16	A/B SELECT (TEST ONLY)
4		SIGNAL COMMON
	17	SIGNAL COMMON
5		VALIDITY BIT COMPLEMENT
	18	VALIDITY BIT SIGNAL
6		BIT 4 COMPLEMENT
	19	BIT 4 SIGNAL
7		BIT 3 COMPLEMENT
	20	BIT 3 SIGNAL
8		BIT 2 COMPLEMENT
	21	BIT 2 SIGNAL
9		BIT 1 COMPLEMENT
	22	BIT 1 SIGNAL
10		SIGNAL COMMON
	23	SIGNAL COMMON
11		AUDIO B RETURN
	24	AUDIO B
12		SIGNAL COMMON
	25	AUDIO A RETURN
13		AUDIO A



making a difference

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