



**COMPUTER  
CONVERSIONS  
CORPORATION**

6 Dunton Court, East Northport, NY 11731 • (516) 261-3300

LDS 500M SERIES  
DC TO SYNCHRO/RESOLVER  
CONVERTERS

The LDS 500M Series are high accuracy, drift free, and continuously updating DC-Angle to Synchro or Resolver Converters designed for Military and Industrial; simulation and control applications. They will accept a DC voltage representing angle and convert it into 3 wire synchro or 4 wire resolver signals. Units are available with operating frequencies from 50 to 5KHZ and single module units can drive most control transformers (CT) and size 11 torque receivers. Internal hybrid amplifiers will drive loads of up to 1.5VA on standard units and extended temperature range units (-2); will drive loads of up to 2.5VA. Resolver and Synchro outputs are overvoltage transient and short circuit protected.

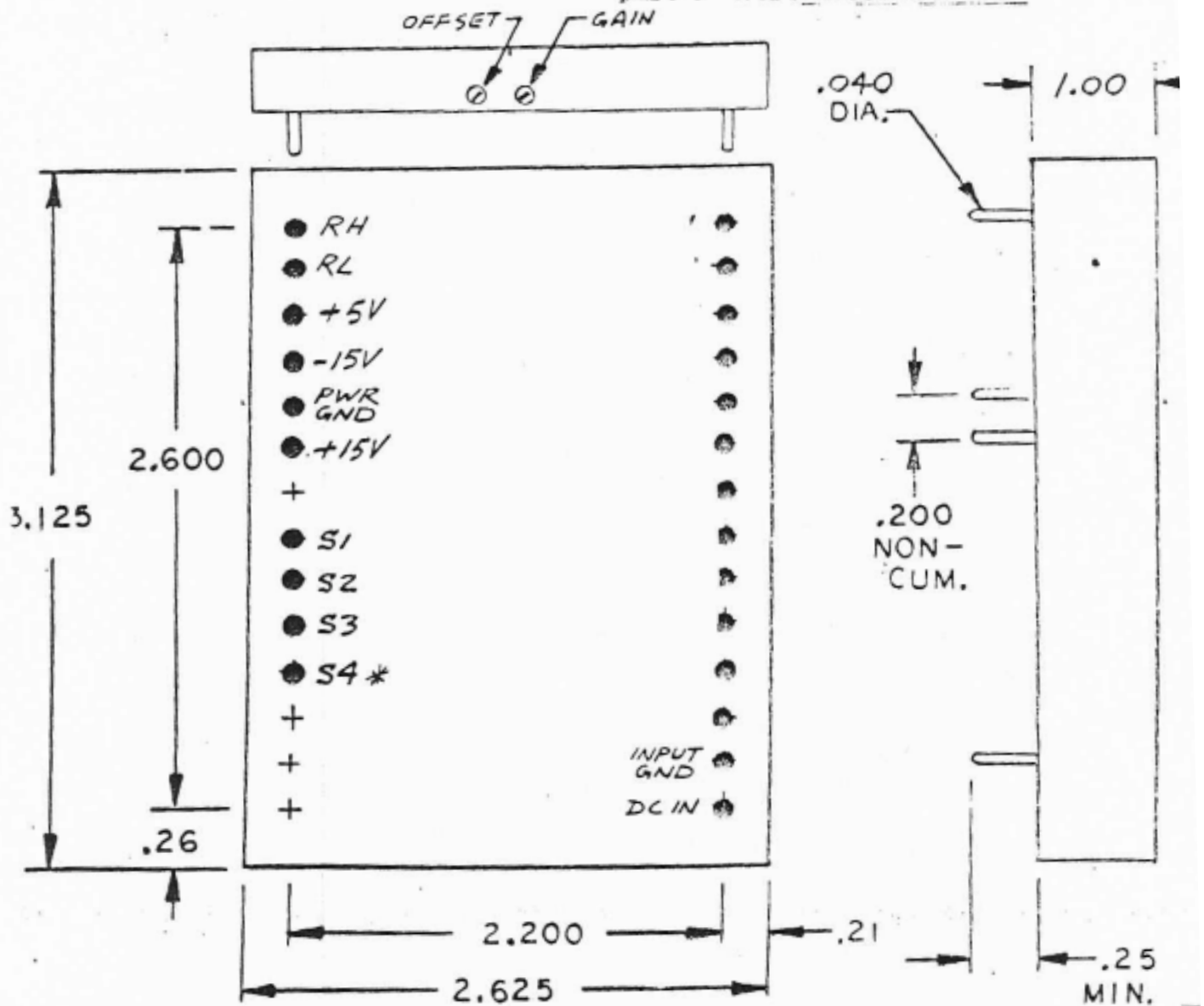
<u>Models:</u>	<u>Synchro</u>	<u>Resolver</u>
50 Hz. (1)	LDS506M	LDR506M
400 Hz.	LDS504M	LDR504M
2600 Hz.	LDS526M	LDR526M
<u>ACCURACY:</u>	±15 Minutes	
<u>DC INPUT:</u> (2)	A) ±10VDC representing angles from ±180° into 20K ohms input impedance. B) ±100 VDC representing angles from ±180° into 20K ohms input impedance. C) 0-10VDC representing 0 to 360° into 10K ohms input impedance.	
<u>OUTPUT LOAD:</u>	1.5VA standard 2.5VA on (-2) extended temp. range units	
<u>OUTPUT VOLTAGES:</u> (2)	-L) 11.8VRMS L-L -H) 90VRMS L-L	
<u>REFERENCE:</u>	-L) 26V at 5 ma. rms. 400 Hz. (LDS504M-L)	
<u>INPUT:</u> (2)	-H) 115V at 1.2 ma. rms 400 Hz. (LDS504-H)	
<u>POWER SUPPLIES:</u>	±15VDC at 150 ma. with 450 ma. surge capability and +5VDC at 250 ma. -or- ±15VDC at 85 ma. + load current and +5VDC at 250 ma.	
<u>TEMPERATURE RANGE</u> <u>OPERATING:</u>	-1) 0° to 70°C (LDS504M-L-1) -2) -25°C to +85°C (LDS504M-L-2) -55°C to +100°C derated accuracy	
<u>STORAGE:</u>	-55°C to +125°C	
<u>SIZE:</u>	2.6 x 3.1 x 1"H MODULE (FACTORY REPAIRABLE)	

NOTES:

- 1) 60 Hz. units require external output transformers (provided)
- 2) Different voltages and frequencies available

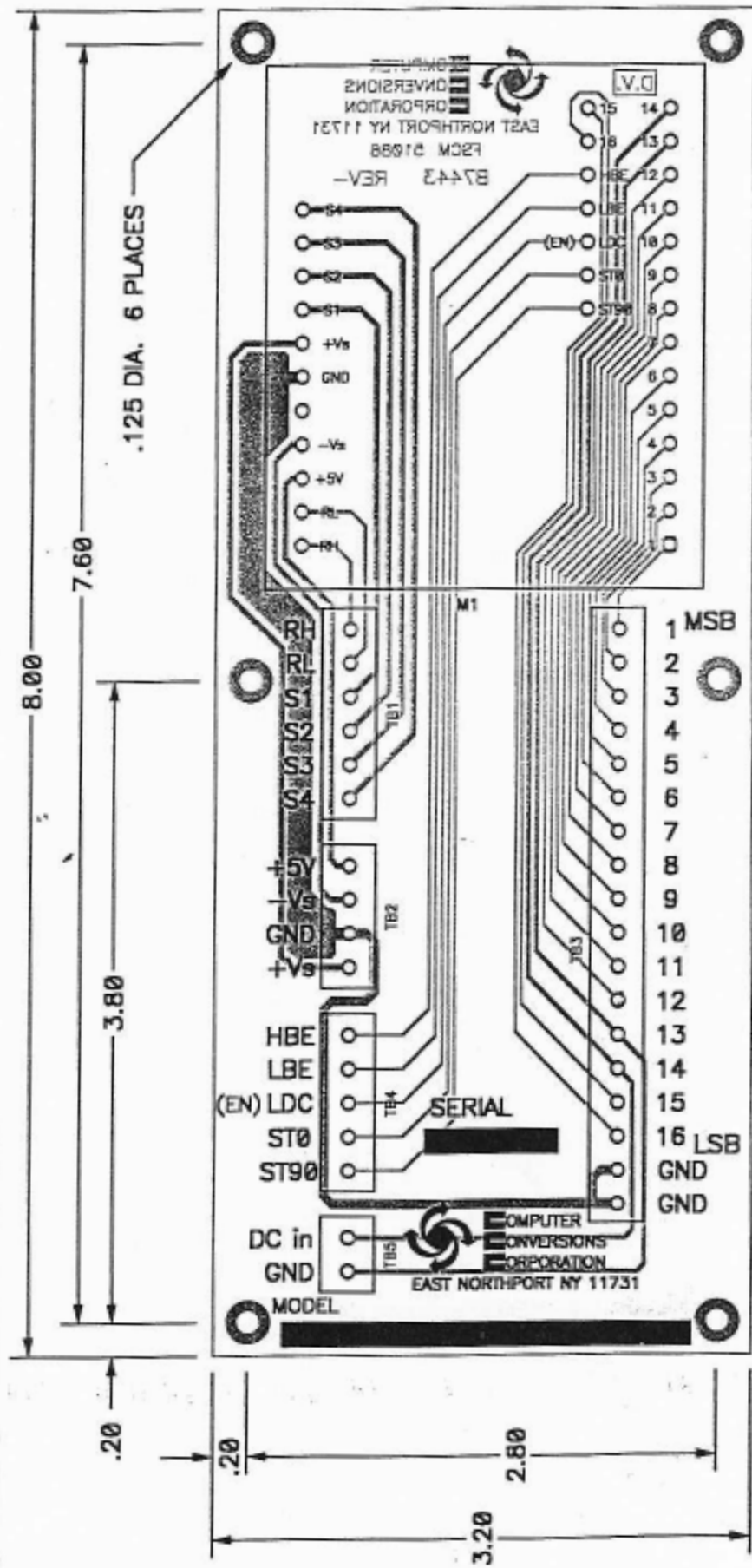
ORDERING GUIDE:

- (1) Specify basic model desired
- (2) Add: -A-B or -C for desired DC input voltage
- (3) Add: -L or -H for desired L-L output voltage
- (4) Add: -1 or -2 for desired operating temperature range
- (5) To order a unit with  $\pm 10\text{VDC}$  input, 400 Hz., 11.8V L-L Synchro output, operating from  $0^{\circ}\text{C}$  to  $70^{\circ}\text{C}$ , use part number: LDS504M-A-L-1



\* RESOLVER UNITS ONLY (LDR)

BOTTOM VIEW



NOTE: PLASTIC SNAP -TRAK MOUNTING OPTIONAL .