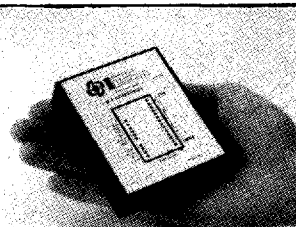




**COMPUTER
CONVERSIONS
CORPORATION**

EAST NORTHPORT, N.Y. 11731 - 516 261-3300
TWX 510-226-0448



16 BIT DIGITAL TO SYNCHRO CONVERTER

DSL 16 SERIES

DESCRIPTION

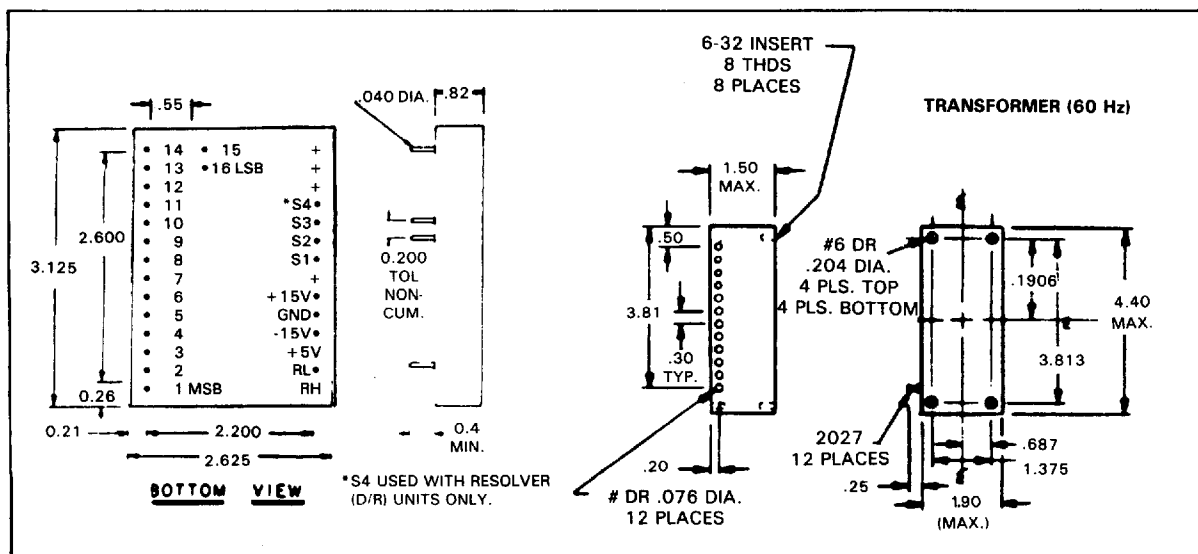
The DSL16 Series are high accuracy, 16 Bit resolution, miniature continuously updating digital to synchro or resolver converters designed for military and industrial control applications. These 2.6 x 3.1 x .82" H modules will accept 16 Bits of natural binary angle data and convert it into 3 wire synchro or 4 wire resolver data with up to 1 minute accuracy. The transformer isolated outputs and hybrid power amplifiers will drive loads of up to 1.5VA and are short circuit protected. This series should be used in any applications requiring higher accuracy than was previously available with 14 bit converters. For applications information see Page 10 of catalog.

FEATURES

- .005° Resolution
- ± 1 minute Accuracy
- Synchro or Resolver Outputs
- Transformer Isolated
- Output Short Circuit Protected
- No Adjustments
- Low Cost

SPECIFICATIONS

MODELS	400Hz DSL416 60Hz DSL616			
ACCURACY: (1)	+2 minute ±1LSB			
RESOLUTION:	16 Bits (1 LSB = .005°)			
CODING: (5)	Natural Binary Angle			
DIGITAL INPUT: FAN IN:	Parallel, Position Logic DTL/TTL Compatible 1 TTL Load			
OUTPUT VOLTAGES (2) (Transformer Isolated)	A. Synchro 11.8V RMS 400Hz (DSL416-L) B. Synchro 90V RMS L-L 400Hz (DSL416-H) C. Synchro 90V RMS L-L 60Hz (DSL616-H) (2 Modules) D. Resolver 11.8V RMS L-L 400Hz (DRL416)			
OUTPUT LOAD: (3)	A. 100 ohms L-L Balanced (11.8V) 400 Hz. B. 5000 ohms L-L Balanced (90V) 400 Hz. C. 4000 ohms L-L Balanced (90V) 60Hz.			
RESPONSE TIME:	100 usec.			
REFERENCE INPUT:	26V @ 5ma RMS 400Hz (-L) 115V @ 1.2ma RMS 400Hz (-H) 115V @ 1.5ma RMS 60Hz (DSL616)			
POWER SUPPLIES:	Voltage Current (AVG) Current (peak)	+15V 150ma 450ma	-15V 130ma 450ma	+5V 50ma 50ma
TEMPERATURE RANGE:				
OPERATING (4)	0°C to 70°C (-1) -55°C to +105°C (-2)			
STORAGE	-55°C to +125°C			
SIZE:	A. 2.6 x 3.1 x .8" H (400Hz) B. 2.6 x 3.1 x .8" H Module & External Transformer 4.40 x 1.90 x 1.5" H			
NOTES:	1. Accuracy applies over operating temperature range ±10% amplitude and frequency variations, ±5% power supply variations, ±10% harmonic distortion. 2. Different voltages and frequencies available. 3. Higher power units available (up to 25VA). 4. Units with 883 Level B components available (-83). 5. BCD input available.			
ORDERING GUIDE	1. Specify basic model desired. 2. Add operating temperature range. 3. To order a 16 Bit 11.8 L-L Synchro output into 100 ohms L-L operating from 0-70°C use part number DSL416-L-1.			



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