


**COMPUTER
CONVERSIONS
CORPORATION**

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

HIGH POWER DIGITAL TO SYNCHRO CONVERTER DSH SERIES

DESCRIPTION

The DSH Series are high power, continuously updating digital to synchro converters specifically designed to drive torque receivers and be immune to any and all overload or transient conditions. They will accept 10, 12 or 14 Bit natural binary angle data and convert it into 3 wire synchro signals with accuracies of up to 10 minutes of arc. All units feature a heat sink mounted thermal sensor which will shut down the power stages in any over-temperature condition. In addition, a digital fault indication is present when this condition occurs. If operation is required during an overtemperature situation an override control is provided. For increased reliability the synchro output and reference input are protected against the inductive kickback and stalled rotor condition of a torque receiver.

FEATURES

- 25VA Output
- Drives TR and CT Loads
- Short Circuit, overload and transient protected
- Thermal shutdown
- Fault Indicator
- 14 Bit Resolution

SPECIFICATIONS

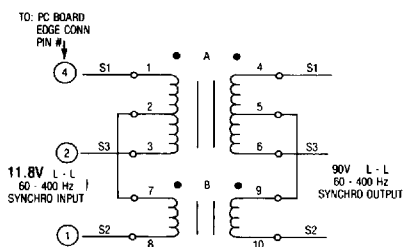
MODELS	14 BIT	12 BIT	10 BIT
400 Hz DSH 40		DSH 412	DSH 410
60 Hz DSH 60		DSH 612	DSH 610
ACCURACY (1)	± 10 minutes	± 21 minutes	± 30 minutes
CODING	Natural Binary Angle	*	*
LOGIC	Parallel positive logic DTL/TTL Compatible		
DIGITAL (3) INPUTS/OUTPUTS:	Logic "1" or open; Thermal cutoff overridden	*	*
ENABLE (EN)	Logic "0" or gnd; Thermal cutoff operates normally	*	*
DISABLE (DIS)	Logic "1" or open; power stage shutdown		
	Logic "0" or gnd; normal operation		
FAULT (FT)	Logic "1" indicates power stage shutdown	*	*
THERMAL SENSOR TRIP POINT	110°C		
REFERENCE INPUT	26V rms 57 to 440 Hz @ 260k ohms SS differential (- L) 115V rms 57 to 440 Hz @ 1100k ohms SS differential (- H)	*	*
OUTPUT VOLTAGE: (4)	3 wire synchro - 25VA 11.8V L-L, 400 Hz SS Isol (DSH40SS-L) max. load 1 ohm 11.8V L-L, 400 Hz Xfmr Isol (DSH40XT-L) max. load 1 ohm 90V L-L, 400 Hz Xfmr Isol (DSH40XT-H) max. load 50 ohm 90V L-L, 50-400 Hz Xfmr Isol (DSH60XT) max. load 100 ohm	*	*
POWER SUPPLIES	+ 15V @ 65 ma, + load current - 15V @ 65 ma + load current + 5V @ 100 ma		
TEMPERATURE RANGE (6) OPERATING	0° to 70°C (-1) - 55°C to + 85°C (- 2)	*	*
STORAGE	- 55°C to + 125°C	*	*
SIZE (2)	4.5" x 9.25" PC Card Plus output Xfms 2.0" x 4.0" x 2.62"		

NOTES:

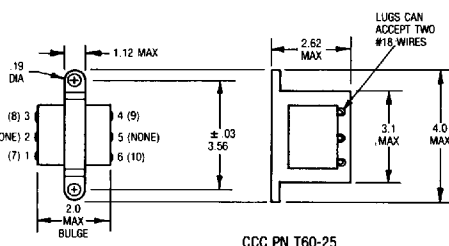
- 1) Accuracy applies over operating temperature range, ± 10% amplitude and frequency variations, & ± 5% power supply variations.
- 2) External transformers are included in transformer isolated models.
- 3) Input registers available.
- 4) Scale factor corrected units available (DSH40K).

HOW TO ORDER

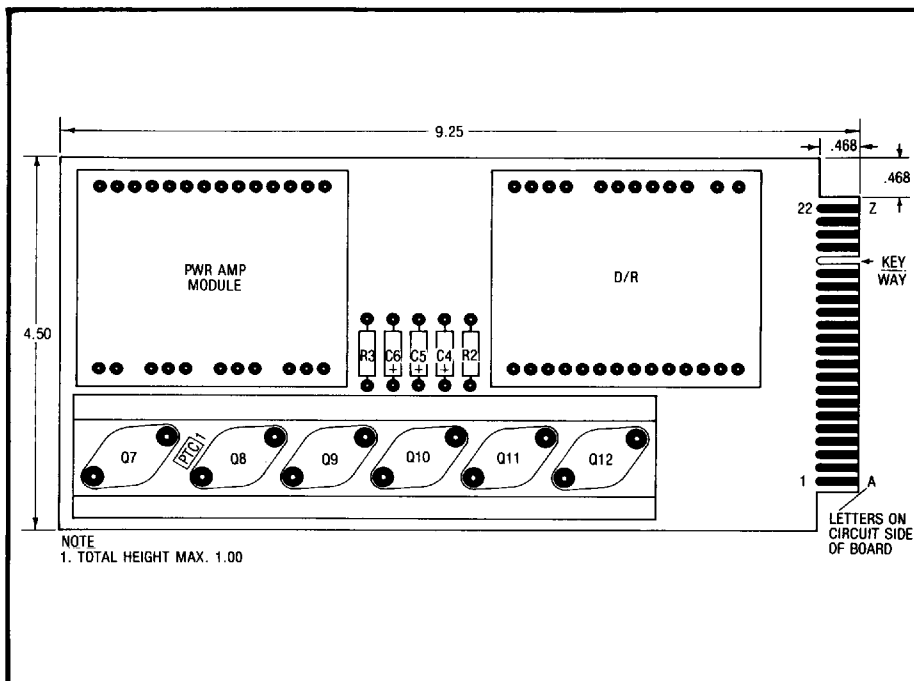
- 1) Specify basic model desired.
- 2) Choose operating temperature range.
- 3) To order a 10 Bit, 400 Hz, 11.8V L-L, Synchro output, transformer isolated, with 15VA load capabilities, to operate from 0° to 70°C use part number DSH410XT-L-1-15.



NOTE
 1 - OUTPUT SCOTT "T" XFMR T60-25 CONSISTS OF 2 COILS A & B, WITH THE SAME DIMENSIONS. PINS 1-6 REFER TO A & PINS 7-10 (IN PARENTHESIS) REFER TO B
 2 - TRANSFORMER WEIGHT: 66.4 OZ. (PER PAIR)



CCC PN T60-25



NOTE
 1. TOTAL HEIGHT MAX. 1.00

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