

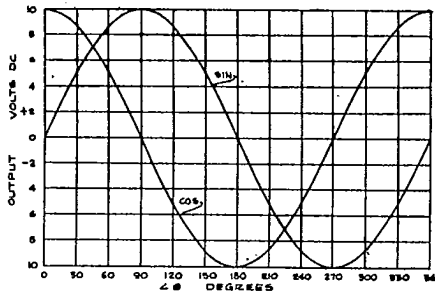
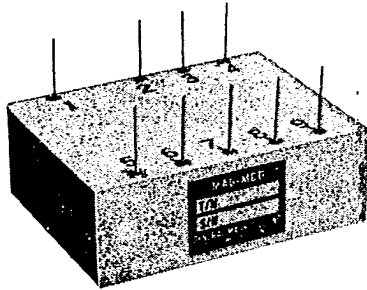
# Solid State Sine-Cosine Synchro Converters

## SINGLE CHANNEL SYNCHRO CONVERTER

**ACCURACY** — Overall conversion accuracy  
6 minutes

### AMBIENT TEMPERATURE

**RANGE** — Operating —40°C to +100°C  
Storage —62°C to +125°C



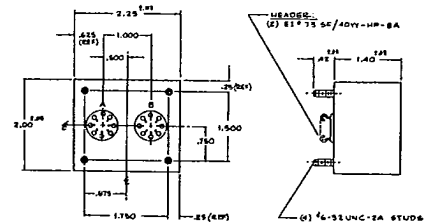
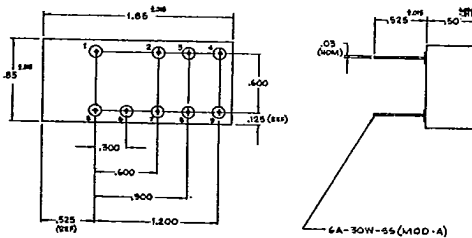
## DUAL CHANNEL SYNCHRO CONVERTER

provides two (2) independent sine-cosine synchro converter circuits in one package. Overall conversion accuracy is six (6) minutes. Temperature range is —40°C to +100°C.



### FEATURES

- Converts a three wire synchro input to a pair of DC outputs proportional to the sine and cosine of the synchro angle with 6 minute accuracy.
- Completely solid state with the inherent advantages over a mechanical system such as:
  - High Reliability
  - Light Weight
  - Small Size
- All units hermetically sealed.
- Output short circuit protected.
- Wide operating temperature range.
- Isolated 3-wire inputs.
- Package size, frequency of operation, line to line voltages and other parameters may be altered to your exact specifications at no extra cost.
- Printed circuit board mounting.
- Dual channel units available.



UNIT	DMD 1436-1	DMD 1430-1	DMD 1403-1	DMD 1361-6	DMD 1361-4	DMD 1193-4	DMD 1361-8	DMD 1446-1	DMD 1193-5	DMD 1193-6	DMD 1361-10	DMD 1472-2
L - L SYNCHRO INPUT (VRMS)	11.8	90	95	90	11.8	11.8	11.8	11.8	11.8	11.8	11.8	90
FREQUENCY (Hz)	400	400	60	400	400	400	400	400	400	400	400	60
FULL SCALE OUTPUT (VDC)	±10	±10	±3	±3	±3	±10	±10	±10	±10	±10	±10	±10
OUTPUT IMPEDANCE	<1Ω	<1Ω	<1Ω	<1Ω	<1Ω	<1Ω	<1Ω	<10Ω	<1Ω	<1Ω	<1Ω	<1Ω
L - L INPUT IMPEDANCE	>10K	>30K	>5K	>30K	>5K	>5K	>5K	>5K	>5K	>5K	>5K	>5K
REFERENCE VOLTAGE (VRMS)	26	115	115	115	26	115	26	115	115	115	26	115
ACCURACY SIN/COS (+25°C)	± 6MIN	± 6MIN	± 6MIN	± 6MIN	± 6MIN	± 6MIN	± 6MIN	± 0.5%	± 6MIN	± 6MIN	± 6MIN	± 6MIN
FULL TEMPERATURE RANGE ACCURACY SIN	± 15MIN	± 15MIN	± 15MIN	± 15MIN	± 15MIN	± 15MIN	± 15MIN	± 0.5%	± 15MIN	± 15MIN	± 15MIN	± 15MIN
FULL TEMPERATURE RANGE ACCURACY COS	± 15MIN	± 15MIN	± 15MIN	± 15MIN	± 15MIN	± 15MIN	± 15MIN	± 0.5%	± 15MIN	± 15MIN	± 15MIN	± 15MIN
D.C. SUPPLY (VDC)	± 15	± 15	± 15	± 15	± 15	± 15	± 15	± 15	± 15	± 15	± 15	± 15
D.C. SUPPLY CURRENT	<30MA	<30MA	<30MA	<30MA	<30MA	<30MA	<30MA	<30MA	<30MA	<30MA	<30MA	<30MA
BANDWIDTH	>10Hz	>10Hz	external set	>20Hz	>5Hz	>10Hz	>10Hz	>10Hz	>2Hz	>40Hz	>5Hz	external set
SIZE	1.1x3.0 x1.1	2.0x2.25 x1.4	1.1x3.0 x1.1	1.5x1.5 x0.6	1.85x0.85 x0.5	2.01x2.25 x1.4	0.85x1.85 x0.5	2x2.25 x1.4	2x2.25 x1.4	2x2.25 x1.4	2.15x1.25 x0.5	1.1x3.0 x1.1
NOTES	-	dual channel unit	-	-	-	dual channel unit	-	sine channel unit	dual channel unit	dual channel unit	-	-
TEMPERATURE RANGE	-40°C to +100°C	-40°C to +100°C	-40°C to +100°C	-40°C to +100°C	-40°C to +100°C	-40°C to +100°C	-40°C to +100°C	-40°C to +100°C	-40°C to +100°C	-40°C to +100°C	-40°C to +100°C	-40°C to +100°C

There is No Substitute for Reliability



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