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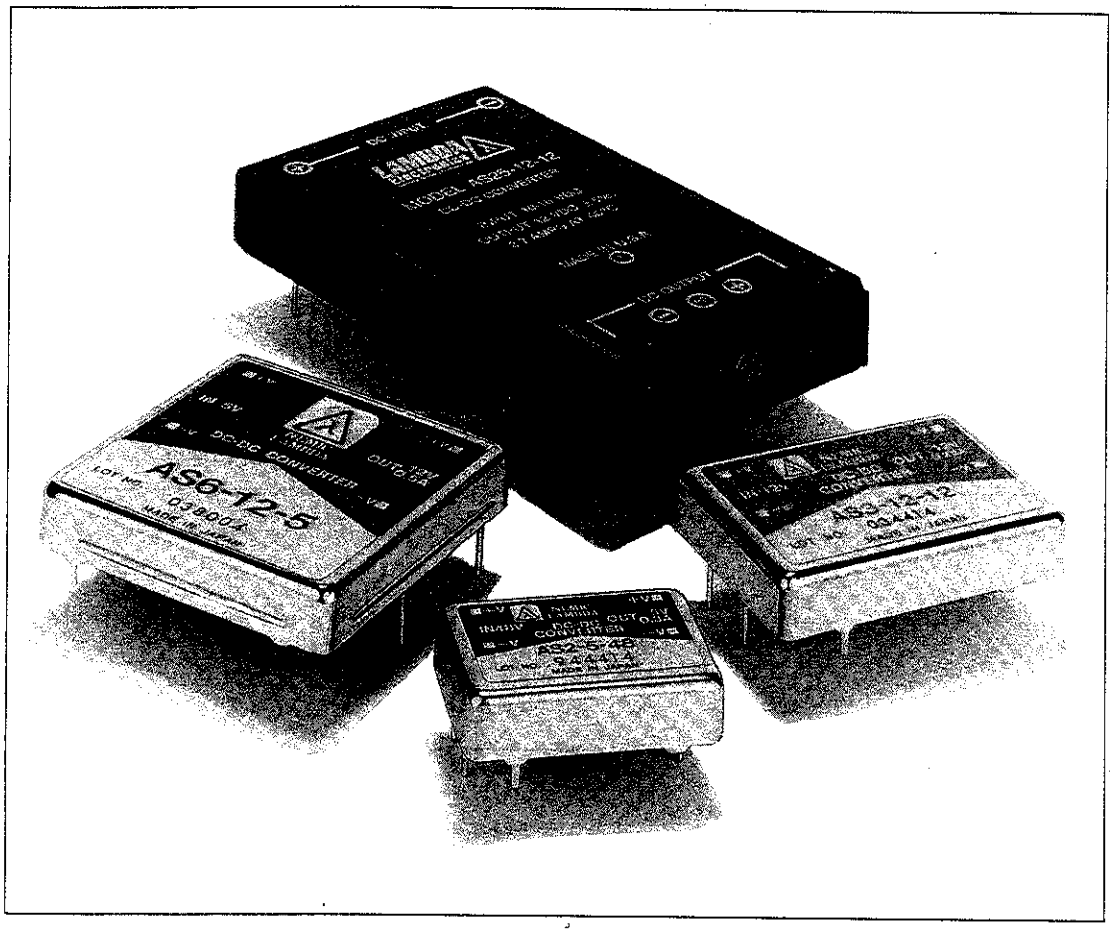
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Find the *TDK-Lambda / Nemic-Lambda AS3-5-24* at our website: *Click HERE*

Part II – DC-to-DC Converters

LAMBDA'S A SERIES



Designed for Communications and Industrial Control Equipment

Lambda's A Series DC-to-DC Converters is a family of 105 convection cooled modules that are fully isolated for PC board applications. Their ultra-thin profiles, down to 0.35-inches, allow for mounting of multiple circuit cards in high density configurations. They provide up to 9.1 W/in^3, increasing circuit board density in your final product. And unlike most DC-to-DC converters, the A Series specifications are guaranteed over the entire operating temperature range. They are designed with efficiencies to 81 % – reducing overall heat rise for increased reliability.

The A Series has wide range DC input capability and provides fully regulated output voltages to the load...ideal for low voltage battery or 48VDC telecommunication applications. It is a prime choice when powering up transducers, A/D and D/A converters, power operational amplifiers, and memories, or for providing local regulation for other types of circuits.

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Efficiency (Typical)
Minimum for AS25 Series.
60% on 5V models of AS2 Series.
65% on 12V and 15V models of AS2 Series; 5V models of AS3 Series; -1205, -1505 and dual 5V models of AD6 Series; AD10-D505-5.
68% on 5V AD10 models (12, 24 and 48V inputs).
70% on 12V and 15V models of AS3 Series; 5V models of AS25 Series; AS6-5-5; dual 12V and 15V models of AD Series.
72% on 12V, 15V, and 24V models of AS6 Series (5V input); 5V models of AS6 Series (12V, 24V, and 48V inputs).
74% on 12V and 15V models of AS25 Series.
75% on 12V, 15V, and 24V models of AS6 Series (12V, 24V, and 48V inputs).
77% on 5V, 12V, 15V, and 24V models of AS10 Series (5V input).
79% on 5V, 12V, 15V, and 24V models of AS10 Series (12V inputs).
81% on 5V, 12V, 15V, and 24V models of AS10 Series (24V and 48V inputs).

DC Output
Voltage range shown in tables.

Regulated Voltage
regulation, line ..... 0.4% for input variations over entire input range. 0.1% for AS25 Series.
regulation, load ..... 0.6% for load variations from no load to full load and full load to no load with constant input. 0.4% for AS25 Series. 0.5% for 24V models of AS6 and AS10 Series.
ripple and noise (20MHz Bandwidth) ..... 100mV pk-pk for 5V models of AS25 Series.
120mV pk-pk for 5V models of AS2, AS3, AS6, AS10 Series and AD Series.
150mV pk-pk for 12V and 15V models of AS2, AS3, AS6, AS10 and AS25 Series.
200mV pk-pk for 24V models of AS6 and AS10 Series.
temperature coefficient ..... 0.03%/°C.

Overload Protection Electrical
External overload protection. Automatic electronic current limiting circuit limits the output current to a preset value, thereby providing protection for the load as well as the power supply. Should an overload condition on the AS6 or AS10 last for longer than 5 seconds, the unit will automatically shut down the output voltage. Avoid operating the AD Series in overload or short circuit for longer than 30 seconds.

Overshoot
No overshoot at turn-on, turn-off, or power failure.

Series Operation
AS2, AS3, AS6, AD6, AS10 and AD10 models are capable of series operation.

Isolation Rating
500VDC output to ground.
500VDC input to output for 12V input models of AS25 Series.
1500VDC input to output for 48V input models of AS25 Series.
1500VDC input to ground for AS25 Series.

Cooling
All units are convection cooled. No fans or blowers needed.

Operating Temperature Range
AS2, AS3 and AD6 Series: continuous duty −20°C to +71°C with suitable derating below −10°C and above 50°C.
AS6, AS10 and AD10 Series: continuous duty −20°C to +60°C with suitable derating above 50°C.
AS25 Series: −10°C to +65°C with suitable derating above 40°C.

Input and Output Connections
DC input and outputs are via pin type connections.

Mounting
PC board mountable.

Physical Data

Package Model	Lbs. Net	Lbs. Ship	Size Inches
AS2	0.05	0.10	1.30 × 0.35 × 0.87
AS3	0.06	0.12	1.78 × 0.35 × 1.18
AS6, AD6	0.07	0.15	1.85 × 0.35 × 1.85
AS10	0.07	0.15	1.85 × 0.35 × 2.28
AS25	0.20	0.40	2.10 × 0.55 × 3.40

Guarantee
One year guarantee includes labor as well as parts.

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Industrial DC-to-DC Converter Ratings Table

MAX CURRENT (AMPS) AT AMBIENT TEMPERATURE OF 40°C	50°C	60°C	71°C	Vout ADJ. RANGE	INPUT VOLTAGE RANGE (VDC)	COMPLETE ELEC. SPEC. PG.	UNIT PRICE PER DELIVERED QUANTITY 1	10	25	100	MODEL
SINGLE OUTPUT. 5VDC INPUT.											
5V OUTPUT											
0.3	0.3	0.18	0.06	±5% Fixed	4.50-6.0	119	$ 32	$ 30	$ 29	$ 24	AS2-5-5
0.6	0.6	0.36	0.12	±5% Fixed	4.50-6.0	119	39	37	35	28	AS3-5-5
1.2	1.2	0.72	—	±5% Fixed	4.50-7.2	119	56	53	51	40	AS6-5-5
1.6	1.6	0.96	—	±5% Fixed	4.50-7.2	119	70	67	64	51	AS10-5-5
12V OUTPUT											
0.125	0.125	0.075	0.025	±5% Fixed	4.50-6.0	119	32	30	29	24	AS2-12-5
0.25	0.25	0.15	0.05	±5% Fixed	4.50-6.0	119	39	37	35	28	AS3-12-5
0.50	0.50	0.30	—	±5% Fixed	4.50-7.2	119	56	53	51	40	AS6-12-5
0.70	0.70	0.42	—	±5% Fixed	4.50-7.2	119	70	67	64	51	AS10-12-5
15V OUTPUT											
0.1	0.1	0.06	0.02	±5% Fixed	4.50-6.0	119	32	30	29	24	AS2-15-5
0.2	0.2	0.12	0.04	±5% Fixed	4.50-6.0	119	39	37	35	28	AS3-15-5
0.4	0.4	0.24	—	±5% Fixed	4.50-7.2	119	56	53	51	40	AS6-15-5
0.55	0.55	0.33	—	±5% Fixed	4.50-7.2	119	70	67	64	51	AS10-15-5
24V OUTPUT											
0.25	0.25	0.15	—	±5% Fixed	4.50-7.2	119	56	53	51	40	AS6-24-5
0.35	0.35	0.21	—	±5% Fixed	4.50-7.2	119	70	67	64	51	AS10-24-5
SINGLE OUTPUT. 12VDC AND 15VDC INPUT.											
5V OUTPUT											
0.3	0.3	0.18	0.06	±5% Fixed	8.0-16.5	119	$ 32	$ 30	$ 29	$ 24	AS2-5-12
0.6	0.6	0.36	0.12	±5% Fixed	8.0-16.5	119	39	37	35	28	AS3-5-12
1.2	1.2	0.72	—	±5% Fixed	8.0-16.5	119	56	53	51	40	AS6-5-12
1.8	1.8	1.08	—	±5% Fixed	8.0-16.5	119	70	67	64	51	AS10-5-12
5.0	4.3	3.8	3.5	±5% Fixed	10.0-16.0	119	100	95	90	72	AS25-5-12
12V OUTPUT											
0.125	0.125	0.075	0.025	±5% Fixed	8.0-16.5	119	32	30	29	24	AS2-12-12
0.25	0.25	0.15	0.05	±5% Fixed	8.0-16.5	119	39	37	35	28	AS3-12-12
0.50	0.50	0.30	—	±5% Fixed	8.0-16.5	119	56	53	51	40	AS6-12-12
0.75	0.75	0.45	—	±5% Fixed	8.0-16.5	119	70	67	64	51	AS10-12-12
2.70	2.40	2.00	1.8	±5% Fixed	10.0-16.0	119	100	95	90	72	AS25-12-12
15V OUTPUT											
0.1	0.1	0.06	0.02	±5% Fixed	8.0-16.5	119	32	30	29	24	AS2-15-12
0.2	0.2	0.12	0.04	±5% Fixed	8.0-16.5	119	39	37	35	28	AS3-15-12
0.4	0.4	0.24	—	±5% Fixed	8.0-16.5	119	56	53	51	40	AS6-15-12
0.6	0.6	0.30	—	±5% Fixed	8.0-16.5	119	70	67	64	51	AS10-15-12
2.2	1.9	1.60	1.5	±5% Fixed	10.0-16.0	119	100	95	90	72	AS25-15-12
24V OUTPUT											
0.25	0.25	0.15	—	±5% Fixed	8.0-16.5	119	56	53	51	40	AS6-24-12
0.38	0.38	0.23	—	±5% Fixed	8.0-16.5	119	70	67	64	51	AS10-24-12
SINGLE OUTPUT. 24VDC AND 28VDC INPUT.											
5V OUTPUT											
0.3	0.3	0.18	0.06	±5% Fixed	18.0-32.0	119	$ 32	$ 30	$ 29	$ 24	AS2-5-24
0.6	0.6	0.36	0.12	±5% Fixed	18.0-32.0	119	39	37	35	28	AS3-5-24
1.2	1.2	0.72	—	±5% Fixed	18.0-32.0	119	56	53	51	40	AS6-5-24
2.0	2.0	1.20	—	±5% Fixed	18.0-32.0	119	70	67	64	51	AS10-5-24
5.0	4.4	3.90	—	±5% Fixed	18.0-36.0	119	100	95	90	72	AS25-5-24
12V OUTPUT											
0.125	0.125	0.075	0.025	±5% Fixed	18.0-32.0	119	32	30	29	24	AS2-12-24
0.25	0.25	0.15	0.05	±5% Fixed	18.0-32.0	119	39	37	35	28	AS3-12-24
0.50	0.50	0.30	—	±5% Fixed	18.0-32.0	119	56	53	51	40	AS6-12-24
0.90	0.90	0.54	—	±5% Fixed	18.0-32.0	119	70	67	64	51	AS10-12-24
2.70	2.40	2.20	—	±5% Fixed	18.0-36.0	119	100	95	90	72	AS25-12-24
15V OUTPUT											
0.1	0.1	0.06	0.02	±5% Fixed	18.0-32.0	119	32	30	29	24	AS2-15-24
0.2	0.2	0.12	0.04	±5% Fixed	18.0-32.0	119	39	37	35	28	AS3-15-24
0.4	0.4	0.24	—	±5% Fixed	18.0-32.0	119	56	53	51	40	AS6-15-24
0.7	0.7	0.42	—	±5% Fixed	18.0-32.0	119	70	67	64	51	AS10-15-24
2.2	2.1	1.90	—	±5% Fixed	18.0-36.0	119	100	95	90	72	AS25-15-24
24V OUTPUT											
0.25	0.25	0.15	—	±5% Fixed	18.0-32.0	119	56	53	51	40	AS6-24-24
0.45	0.45	0.27	—	±5% Fixed	18.0-32.0	119	70	67	64	51	AS10-24-24

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Industrial DC-to-DC Converter Ratings Table

MAX CURRENT (AMPS) AT AMBIENT TEMPERATURE OF 40°C	50°C	60°C	71°C	Vout ADJ. RANGE	INPUT VOLTAGE RANGE (VDC)	COMPLETE ELEC. SPEC. PG.	UNIT PRICE PER DELIVERED QUANTITY 1	10	25	100	MODEL
SINGLE OUTPUT. 48VDC INPUT.											
5V OUTPUT											
0.3	0.3	0.18	0.06	±5% Fixed	32.0-60.0	119	$ 32	$ 30	$ 29	$ 24	AS2-5-48
0.6	0.6	0.36	0.12	±5% Fixed	32.0-60.0	119	39	37	35	28	AS3-5-48
1.2	1.2	0.72	—	±5% Fixed	32.0-60.0	119	56	53	51	40	AS6-5-48
2.0	2.0	1.20	—	±5% Fixed	32.0-60.0	119	70	67	64	51	AS10-5-48
5.0	4.8	4.3	4.0	±5% Fixed	36.0-72.0	119	100	95	90	72	AS25-5-48
12V OUTPUT											
0.125	0.125	0.075	0.025	±5% Fixed	32.0-60.0	119	32	30	29	24	AS2-12-48
0.25	0.25	0.15	0.05	±5% Fixed	32.0-60.0	119	39	37	35	28	AS3-12-48
0.50	0.50	0.30	—	±5% Fixed	32.0-60.0	119	56	53	51	40	AS6-12-48
0.90	0.90	0.54	—	±5% Fixed	32.0-60.0	119	70	67	64	51	AS10-12-48
2.7	2.6	2.3	2.1	±5% Fixed	36.0-72.0	119	100	95	90	72	AS25-12-48
15V OUTPUT											
0.1	0.1	0.06	0.02	±5% Fixed	32.0-60.0	119	32	30	29	24	AS2-15-48
0.2	0.2	0.12	0.04	±5% Fixed	32.0-60.0	119	39	37	35	28	AS3-15-48
0.4	0.4	0.24	—	±5% Fixed	32.0-60.0	119	56	53	51	40	AS6-15-48
0.7	0.7	0.42	—	±5% Fixed	32.0-60.0	119	70	67	64	51	AS10-15-48
2.2	2.1	1.9	1.8	±5% Fixed	36.0-72.0	119	100	95	90	72	AS25-15-48
24V OUTPUT											
0.25	0.25	0.15	—	±5% Fixed	32.0-60.0	119	56	53	51	40	AS6-24-48
0.45	0.45	0.27	—	±5% Fixed	32.0-60.0	119	70	67	64	51	AS10-24-48

VOLTS Vo	MAX CURRENT (AMPS) AT AMBIENT TEMPERATURE OF 40°C	50°C	60°C	71°C	MAX POWER (WATTS) AT AMBIENT TEMPERATURE OF 40°C	50°C	60°C	71°C	Vout ADJ. RANGE	INPUT VOLTAGE RANGE (VDC)	COMPLETE ELEC. SPEC. PG.	UNIT PRICE PER DELIVERED QUANTITY 1	10	25	100	MODEL
DUAL OUTPUT. 5VDC INPUT.																
5V, 5V OUTPUT																
5V	.60	.60	.36	.06	4.5	4.5	2.7	.45	±5% Fixed	4.5-7.2	119	$ 63	$ 59	$ 56	$ 44	AD6-0505-5
5V	.60	.60	.36	.06												
5V	.80	.80	.48	—	8	8	4.8	—	±5% Fixed	4.5-7.2	119	81	78	73	58	AD10-0505-5
5V	.80	.80	.48	—												
12V, 12V OUTPUT																
12V	.25	.25	.15	.03	6	6	3.6	.6	±5% Fixed	4.5-7.2	119	63	59	56	44	AD6-1212-5
12V	.25	.25	.15	.03												
12V	.35	.35	.21	—	8.4	8.4	5.04	—	±5% Fixed	4.5-7.2	119	81	78	73	58	AD10-1212-5
12V	.35	.35	.21	—												
12V, 5V OUTPUT																
12V	.25	.25	.15	.03	4.5	4.5	2.7	.45	±5% Fixed	4.5-7.2	119	63	59	56	44	AD6-1205-5
5V	.60	.60	.36	.06												
12V	.35	.35	.21	—	8	8	4.8	—	±5% Fixed	4.5-7.2	119	81	78	73	58	AD10-1205-5
5V	.80	.80	.48	—												
15V, 15V OUTPUT																
15V	.20	.20	.12	.02	6	6	3.6	.6	±5% Fixed	4.5-7.2	119	63	59	56	44	AD6-1515-5
15V	.20	.20	.12	.02												
15V	.30	.30	.18	—	9	9	5.4	—	±5% Fixed	4.5-7.2	119	81	78	73	58	AD10-1515-5
15V	.30	.30	.18	—												
15V, 5V OUTPUT																
15V	.20	.20	.12	.02	4.5	4.5	2.7	.45	±5% Fixed	4.5-7.2	119	63	59	56	44	AD6-1505-5
5V	.60	.60	.36	.06												
15V	.30	.30	.18	—	8	8	4.8	—	±5% Fixed	4.5-7.2	119	81	78	73	58	AD10-1505-5
5V	.80	.80	.48	—												
DUAL OUTPUT. 12VDC AND 15VDC INPUT.																
5V, 5V OUTPUT																
5V	.60	.60	.36	.06	4.5	4.5	2.7	.45	±5% Fixed	8.0-16.5	119	$ 63	$ 59	$ 56	$ 44	AD6-0505-12
5V	.60	.60	.36	.06												
5V	1.00	1.00	.60	—	8	8	4.8	—	±5% Fixed	8.0-16.5	119	81	78	73	58	AD10-0505-12
5V	1.00	1.00	.60	—												
12V, 12V OUTPUT																
12V	.25	.25	.15	.03	6	6	3.6	.6	±5% Fixed	8.0-16.5	119	63	59	56	44	AD6-1212-12
12V	.25	.25	.15	.03												
12V	.45	.45	.27	—	10.8	10.8	6.48	—	±5% Fixed	8.0-16.5	119	81	78	73	58	AD10-1212-12
12V	.45	.45	.27	—												
12V, 5V OUTPUT																
12V	.25	.25	.15	.03	4.5	4.5	2.7	.45	±5% Fixed	8.0-16.5	119	63	59	56	44	AD6-1205-12
5V	.60	.60	.36	.06												
12V	.45	.45	.27	—	8	8	4.8	—	±5% Fixed	8.0-16.5	119	81	78	73	58	AD10-1205-12
5V	1.00	1.00	.60	—												

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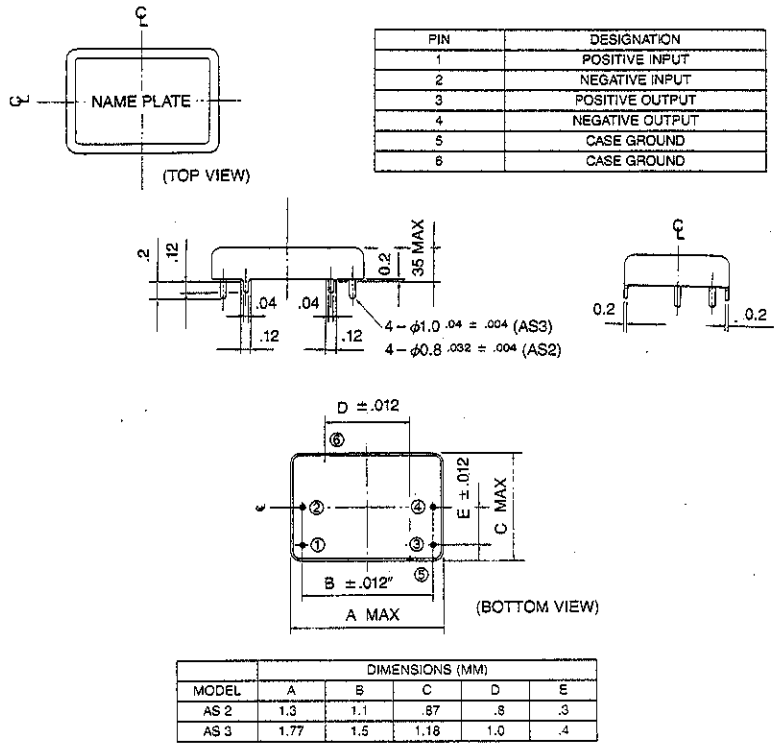
Industrial DC-to-DC Converter Ratings Table

VOLTS Vo	MAX CURRENT (AMPS) AT AMBIENT TEMPERATURE OF 40°C	50°C	60°C	71°C	MAX POWER (WATTS) AT AMBIENT TEMPERATURE OF 40°C	50°C	60°C	71°C	Vout ADJ. RANGE	INPUT VOLTAGE RANGE (VDC)	COMPLETE ELEC. SPEC. PG.	UNIT PRICE PER DELIVERED QUANTITY 1	10	25	100	MODEL
DUAL OUTPUT. 12VDC AND 15VDC INPUT.																
15V, 15V OUTPUT																
15V	.20	.20	.12	.02	6	6	3.6	.6	±5% Fixed	8.0-16.5	119	$ 63	$ 59	$ 56	$ 44	AD6-1515-12
15V	.20	.20	.12	.02												
15V	.35	.35	.21	—	10.5	10.5	6.3	—	±5% Fixed	8.0-16.5	119	81	78	73	58	AD10-1515-12
15V	.35	.35	.21	—												
15V, 5V OUTPUT																
15V	.20	.20	.12	.02	4.5	4.5	2.7	.45	±5% Fixed	8.0-16.5	119	63	59	56	44	AD6-1505-12
5V	.60	.60	.36	.06												
15V	.35	.35	.21	—	8	8	4.8	—	±5% Fixed	8.0-16.5	119	81	78	73	58	AD10-1505-12
5V	1.00	1.00	.60	—												
DUAL OUTPUT. 24VDC AND 28VDC INPUT.																
5V, 5V OUTPUT																
5V	.60	.60	.36	.06	4.5	4.5	2.7	.45	±5% Fixed	16.0-32.0	119	$ 63	$ 59	$ 56	$ 44	AD6-0505-24
5V	.60	.60	.36	.06												
5V	1.00	1.00	.60	—	8	8	4.8	—	±5% Fixed	16.0-32.0	119	81	78	73	58	AD10-0505-24
5V	1.00	1.00	.60	—												
12V, 12V OUTPUT																
12V	.25	.25	.15	.03	6	6	3.6	.6	±5% Fixed	16.0-32.0	119	63	59	56	44	AD6-1212-24
12V	.25	.25	.15	.03												
12V	.45	.45	.27	—	10.8	10.8	6.48	—	±5% Fixed	16.0-32.0	119	81	78	73	58	AD10-1212-24
12V	.45	.45	.27	—												
12V, 5V OUTPUT																
12V	.25	.25	.15	.03	4.5	4.5	2.7	.45	±5% Fixed	16.0-32.0	119	63	59	56	44	AD6-1205-24
5V	.60	.60	.36	.06												
12V	.45	.45	.27	—	8	8	4.8	—	±5% Fixed	16.0-32.0	119	81	78	73	58	AD10-1205-24
5V	1.00	1.00	.60	—												
15V, 15V OUTPUT																
15V	.20	.20	.12	.02	6	6	3.6	.6	±5% Fixed	16.0-32.0	119	63	59	56	44	AD6-1515-24
15V	.20	.20	.12	.02												
15V	.35	.35	.21	—	10.5	10.5	6.3	—	±5% Fixed	16.0-32.0	119	81	78	73	58	AD10-1515-24
15V	.35	.35	.21	—												
15V, 5V OUTPUT																
15V	.20	.20	.12	.02	4.5	4.5	2.7	.45	±5% Fixed	16.0-32.0	119	63	59	56	44	AD6-1505-24
5V	.60	.60	.36	.06												
15V	.35	.35	.21	—	8	8	4.8	—	±5% Fixed	16.0-32.0	119	81	78	73	58	AD10-1505-24
5V	1.00	1.00	.60	—												
DUAL OUTPUT. 48VDC INPUT.																
5V, 5V OUTPUT																
5V	.60	.60	.36	.06	4.5	4.5	2.7	.45	±5% Fixed	32.0-63.0	119	$ 63	$ 58	$ 56	$ 44	AD6-0505-48
5V	.60	.60	.36	.06												
5V	1.00	1.00	.60	—	8	8	4.8	—	±5% Fixed	32.0-63.0	119	81	78	73	58	AD10-0505-48
5V	1.00	1.00	.60	—												
12V, 12V OUTPUT																
12V	.25	.25	.15	.03	6	6	3.6	.6	±5% Fixed	32.0-63.0	119	63	59	56	44	AD6-1212-48
12V	.25	.25	.15	.03												
12V	.45	.45	.27	—	10.8	10.8	6.48	—	±5% Fixed	32.0-63.0	119	81	78	73	58	AD10-1212-48
12V	.45	.45	.27	—												
12V, 5V OUTPUT																
12V	.25	.25	.15	.03	4.5	4.5	2.7	.45	±5% Fixed	32.0-63.0	119	63	59	56	44	AD6-1205-48
5V	.60	.60	.36	.06												
12V	.45	.45	.27	—	8	8	4.8	—	±5% Fixed	32.0-63.0	119	81	78	73	58	AD10-1205-48
5V	1.00	1.00	.60	—												
15V, 15V OUTPUT																
15V	.20	.20	.12	.02	6	6	3.6	.6	±5% Fixed	32.0-63.0	119	63	59	56	44	AD6-1515-48
15V	.20	.20	.12	.02												
15V	.35	.35	.21	—	10.5	10.5	6.3	—	±5% Fixed	32.0-63.0	119	81	78	73	58	AD10-1515-48
15V	.35	.35	.21	—												
15V, 5V OUTPUT																
15V	.20	.20	.12	.02	4.5	4.5	2.7	.45	±5% Fixed	32.0-63.0	119	63	59	56	44	AD6-1505-48
5V	.60	.60	.36	.06												
15V	.35	.35	.21	—	8	8	4.8	—	±5% Fixed	32.0-63.0	119	81	78	73	58	AD10-1505-48
5V	1.00	1.00	.60	—												

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A SERIES MECHANICAL DRAWINGS

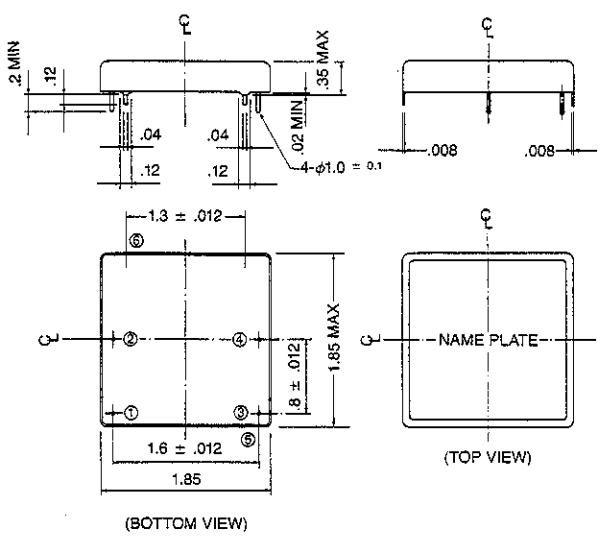
AS2
AS3



PIN	DESIGNATION
1	POSITIVE INPUT
2	NEGATIVE INPUT
3	POSITIVE OUTPUT
4	NEGATIVE OUTPUT
5	CASE GROUND
6	CASE GROUND

	DIMENSIONS (MM)				
MODEL	A	B	C	D	E
AS 2	1.3	1.1	.87	.8	.3
AS 3	1.77	1.5	1.18	1.0	.4

AS6
AS10



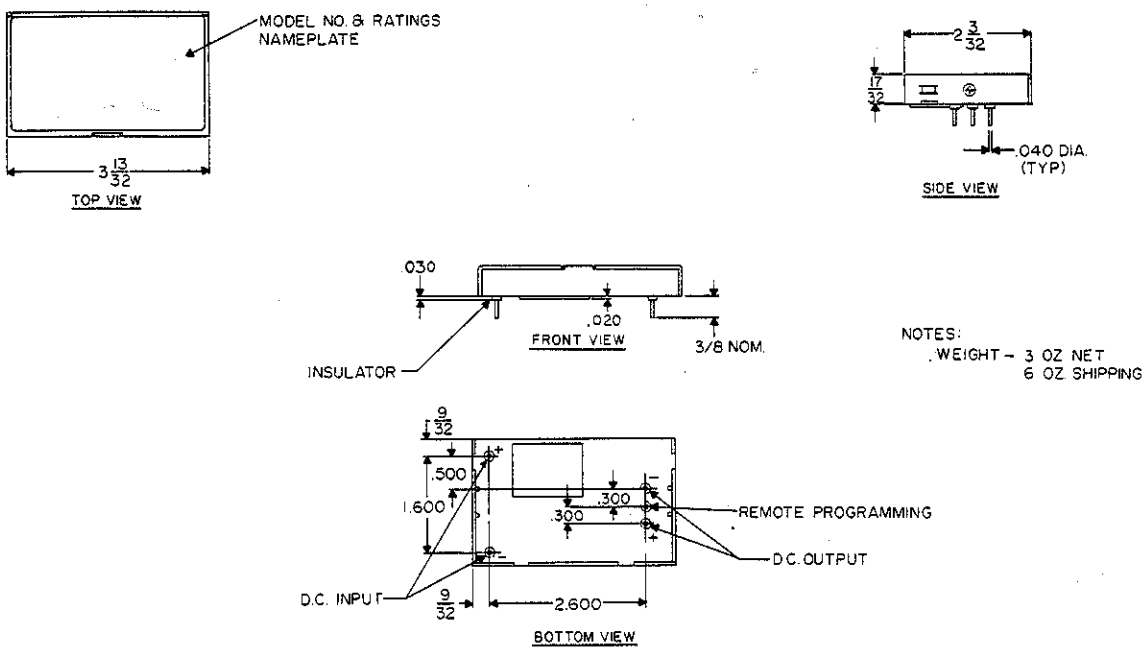
PIN	DESIGNATION
1	POSITIVE INPUT
2	NEGATIVE INPUT
3	POSITIVE OUTPUT
4	NEGATIVE OUTPUT
5	CASE GROUND
6	CASE GROUND

DIMENSIONS: INCHES

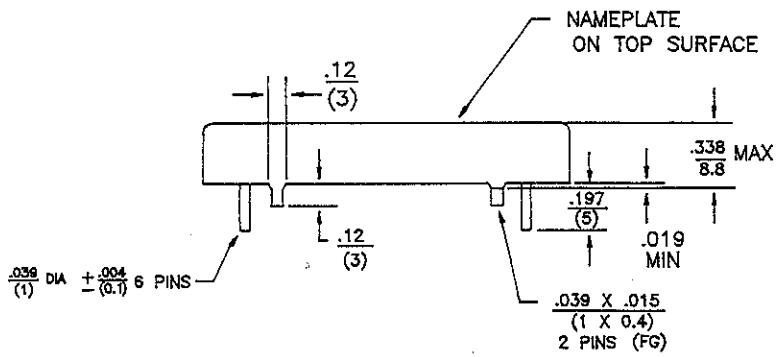
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A SERIES MECHANICAL DRAWINGS

AS25

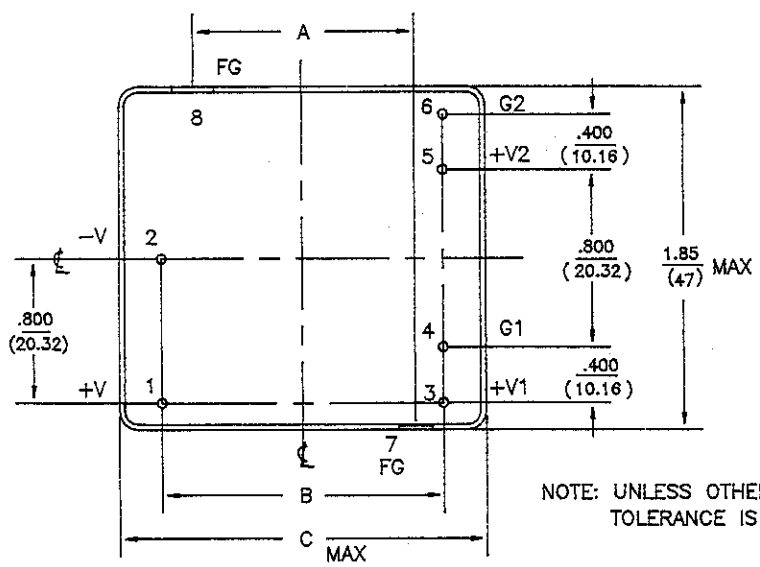


AD-6
AD-10



DIMENSIONS ARE IN INCHES OVER MILLIMETERS.

MODEL \ DIM	A	B	C
AD6	1.30 / 33.02	1.600 / 40.64	1.85 / 47
AD10	1.50 / 38.10	2.000 / 50.80	2.28 / 58



NOTE: UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± .012 INCHES (0.3) MM

BOTTOM VIEW

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