

Series 5AC

5 Watt AC-DC Switchers

Hi Reliability Hi Efficiency/Isolated Single and Dual Outputs

Typical Characteristics

Test Conditions: 25 ° C ambient

Input Voltage: 90-130 VAC (47-440 Hz)

Line/Load Regulation: See specifications below

Converter Frequency: 25-35 KHz typ

Operating Temperature: -25° C to +70° C ambient

Output Voltage Temperature Coefficient: 0.02% / ° C

Storage Temperature: -55° C. to +125° C

Isolation: 1200 VRMS

Short Circuit Protection: Continuous

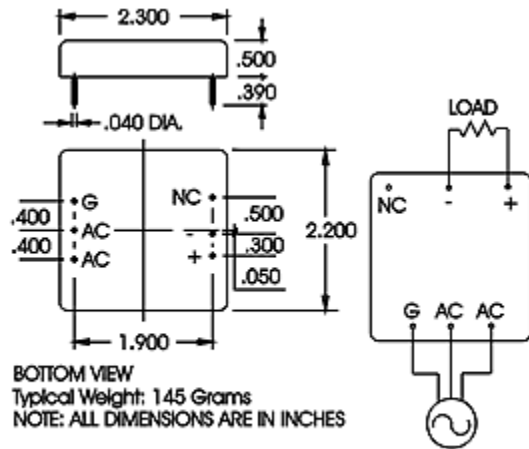
This series of low profile 5 Watt AC to DC switchers come in 7 different models. These units offer high efficiency and precise regulation throughout the operating temperature range of -25° C to +70° C ambient, with no heat sink or electrical derating required. The 5 AC Series keeps a maximum of 0.500" height while still offering you 1200 volts RMS isolation in a rugged encapsulated case. The convenience of PC mounting and the availability of dual outputs should aid your circuit design.

Features

- Low profile 0.500"
- Low weight
- Encapsulated semiconductors, conservatively rated for maximum reliability
- Excellent voltage regulation
- Excellent load regulation
- Up to 5 watts output power at 70° C ambient
- Low output ripple
- Isolation: 1200V RMS
- Single and dual outputs
- No heat sink required
- Miniature size
- No output capacitor required
- Shielding

Low Capacity Option: All units can be manufactured with isolation capacity of 50pF. Contact factory.

Series 5AC
Single Output

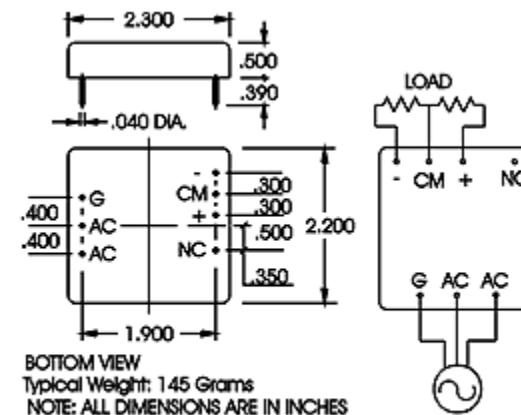


BOTTOM VIEW
Typical Weight: 145 Grams
NOTE: ALL DIMENSIONS ARE IN INCHES

120 VAC/60 Hz
NC = NOT CONNECTED PIN

[Larger Size Drawing And Schematic](#)

Series 5AC
Dual Output



BOTTOM VIEW
Typical Weight: 145 Grams
NOTE: ALL DIMENSIONS ARE IN INCHES

120 VAC/60 Hz
NC = NOT CONNECTED PIN

[Larger Size Drawing And Schematic](#)

Series 5AC Single Output

Input Voltage 90-130VAC (47-440Hz)

(Optional 170-240VAC, 47-440 Hz)***

Pico Part No.	Output Voltage (VDC)	Max. Load Current (mA)	Max. Output Power (watts)	EFF @ Full Load Typical (%)*	Output Voltage Ripple @ Full Ld. 1-1 MHz BW mv p-p	Output Voltage Tolerance (± %)*	V LD. Reg. 10%-100% Load ** (± %)*	Line Regulation (± %)	Price (US \$)
5AC5S	5	1000	5	72	50	0.5	0.5	0.2	266.59
5AC12S	12	417	5	75	50	0.5	0.5	0.2	266.59
5AC15S	15	333	5	75	50	0.5	0.5	0.2	266.59
5AC24S	24	208	5	76	50	0.5	0.5	0.2	266.59

*Readings Taken at 115VAC-60Hz.

**10% minimum load required

***All units available with 170-240VAC input. Add H prefix to part number - \$40 per unit cost added.

Series 5AC Dual Output
Input Voltage 90-130VAC (47-440Hz)
(Optional 170-240VAC, 47-440 Hz) ***

Pico Part No.	Output Voltage (VDC)	Max. Load Current (mA)	Max. Output Power (watts)	EFF @ Full Load Typical (%)*	Output Voltage Ripple @ Full Ld. 1-1 MHz BW mv p-p	Output Voltage Tolerance (± %)*	V LD. Reg. 10%-100% Load ** (± %)*	Line Regulation (± %)	Price (US \$)
5AC5D	± 5	500	2.5	72	50	0.5	0.5	0.2	301.85
5AC12D	± 12	209	2.5	75	50	0.5	0.5	0.2	301.85
5AC15D	± 15	167	2.5	75	50	0.5	0.5	0.2	301.85

*Readings Taken at 115VAC-60Hz.

**10% minimum load required

***All units available with 170-240VAC input. Add H prefix to part number - \$40 per unit cost added.

Call Factory For Options Available per MIL-STD-883:

- Expanded Operating temperature (-55° C to +85° C)
- Stabilization Bake: (125° C ambient)
- Temperature Cycle: -55° C to +125° C
- Hi Temp, Burn in

For immediate engineering assistance or to place an order:

Call Toll Free: 800-431-1064

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