

- +/-10% Input Range
- Low Ripple and Noise
- Up to 6kV Isolation (see notes)
- 7 Pin SIL and 14 Pin DIL Package Styles
- Non Conductive Black Plastic Case
- Option Also For Single Output Models (SA type)
- High Efficiency up to 80%
- -40 to +85 °C Operational Temperature Range



Specification (typical values shown)

Input Ranges.....	5 Volts, 12 Volts, 24 Volts, 48 Volts (+/-10%)
Outputs.....	Dual matched outputs (see table below)
Line Regulation.....	+/-1.2% per 1% Vin change
Load Regulation.....	+/-10% from 20-100% load (3.3V models are +/-20%)
Efficiency.....	See table for each model
Isolation Voltage.....	IP~OP: 1000 VDC (up to 6kV available, see notes)
Operating Temperature.....	-40 to +85 °C @ full load
Storage Temperature.....	-40 to +125 °C
Maximum Case Temperature.....	100 °C
Case/Base Material.....	Non-conductive black plastic (UL94V-0 rated)
Switching Frequency.....	80 kHz (variable)
Ripple & Noise.....	75 mV pk-pk (20 Mhz bandwidth)
Safety.....	IEC60950-1:2001 (for SIP series)
MTBF.....	>1.121 Mhrs (MIL-HDBK-217F) calculated

Models and Ratings (Dual Output Single in Line Package Versions)

Model (5V input)	Model (12V input)	Model (24V input)	Model (48V input)	Output (VDC)	Output Current	Efficiency
ECO0503S	ECO1203S	ECO2403S	ECO4803S	+/-3.3 V	+/-151 mA	60 ~ 68%
ECO0505S	ECO1205S	ECO2405S	ECO4805S	+/-5.0 V	+/-100 mA	70 ~ 74%
ECO0507S	ECO1207S	ECO2407S	ECO4807S	+/-7.2 V	+/-69 mA	70 ~ 77%
ECO0509S	ECO1209S	ECO2409S	ECO4809S	+/-9.0 V	+/-56 mA	72 ~ 78%
ECO0512S	ECO1212S	ECO2412S	ECO4812S	+/-12.0 V	+/-42 mA	74 ~ 78%
ECO0515S	ECO1215S	ECO2415S	ECO4815S	+/-15.0 V	+/-33 mA	74 ~ 80%
ECO0518S	ECO1218S	ECO2418S	ECO4818S	+/-18.0 V	+/-28 mA	72 ~ 80%
ECO0524S	ECO1224S	ECO2424S	ECO4824S	+/-24.0 V	+/-21 mA	70 ~ 80%

Notes:

For 2kV isolation versions, add suffix "H2" to the part number e.g. ECO2405SH2

For 3kV isolation versions, these become ECVxxxxS Series

For 4kV, 5.2kV and 6kV isolation add suffix "H4", "H5" or "H6" accordingly

For DIL (dual in line) versions, change part from ECOxxxxS to ECOxxxxD

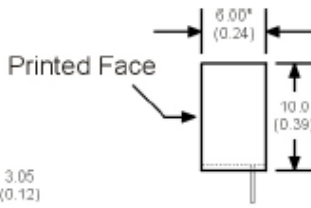
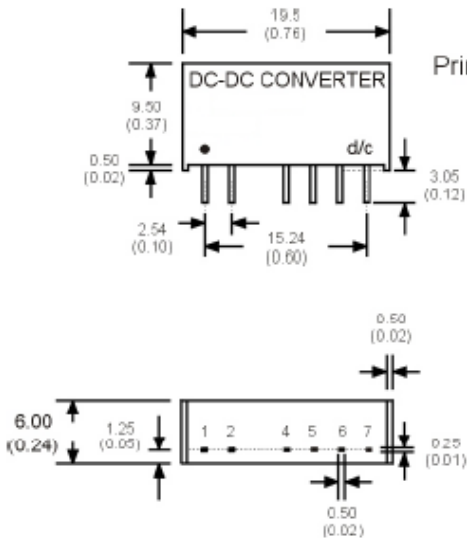
* For single output versions, add extra suffix "A" to the part number e.g. ECO2405SA (output current will be double that shown in the table above)

For mechanical data and pinout, see next page

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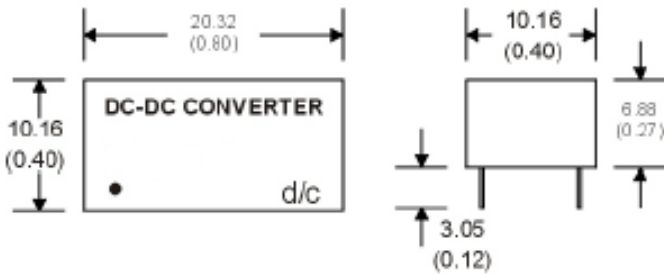
Mechanical Details and Pin-Out (SIL Versions)



* The 48V Input model is 7.2mm deep

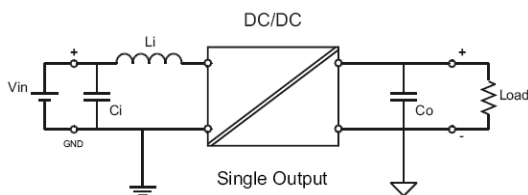
Pin	Single O/P	Dual O/P	Single O/P - H	Dual O/P-H
1	+V in	+V in	+V in	+V in
2	-V in	-V in	-V in	-V in
4	-V out	-V out	No pin	No pin
5	No pin	Common	-V out	-V out
6	+V out	+V out	No pin	Common
7	No pin	No pin	+V out	+V out

Mechanical Details and Pin-Out (DIL Versions)



Pin	Single O/P	Dual O/P	Single O/P - H	Dual O/P-H
1	-V in	-V in	-V in	-V in
7	N/C	N/C	N/C	N/C
8	No pin	Common	+V out	+V out
9	+V out	+V out	No pin	Common
10	No pin	No pin	-V out	-V out
11	-V out	-V out	No pin	No pin
14	+V in	+V in	+V in	+V in

Ripple and Noise filter circuit



To reduce ripple and noise, it is recommended to add a 4.7 μ F~100 μ F capacitor to the output (+/-4. μ F ~ +/-68 μ F for dual output versions). For EMI performance improvement, it is recommended to add a 12 μ H inductor and a 10 μ F ~ 100 μ F capacitor to the input.

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