

Series LV-Single Output-DC-DC Converters

Hi Reliability

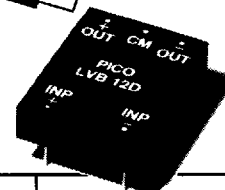
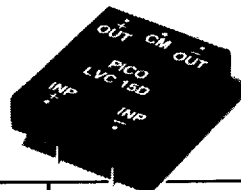
Industrial Grade

Wide Input Voltage (36–80 VDC)

Isolated 1000 VDC

Fully Regulated—up to 10 Watts

Short Circuit Protected

**NO EXTERNAL
CAPACITORS
REQUIRED**
**Terminal Strips
Available**


Series LVA-Single Output-3 Watts

PICO PART NUMBER	OUTPUT VOLTAGE (V DC)	MAX. LOAD CURRENT (mA)	MAX OUTPUT POWER (watts)	EFF. @ FULL LOAD TYPICAL (%)	OUTPUT VOLTAGE TOLERANCE (± %)	LOAD REGULATION 25%-100% LOAD (± %)	LINE REGULATION @ FULL LOAD (± %)	OUTPUT VOLTAGE RIPPLE TYPICAL (mv p-p)	PRICE 1-24
LVASS	5	600	3	64	2	2	1	20	69.00
LVA12S	12	250	3	65	2	2	1	20	69.00
LVA15S	15	200	3	65	2	2	1	15	69.00
LVA24S	24	125	3	66	2	2	1	15	69.00
LVA28S	28	107	3	66	2	2	1	15	69.00
LVA48S	48	62	3	66	2	2	1	15	69.00

Series LVB-Single Output-5 Watts

PICO PART NUMBER	OUTPUT VOLTAGE (V DC)	MAX. LOAD CURRENT (mA)	MAX OUTPUT POWER (watts)	EFF. @ FULL LOAD TYPICAL (%)	OUTPUT VOLTAGE TOLERANCE (± %)	LOAD REGULATION 25%-100% LOAD (± %)	LINE REGULATION @ FULL LOAD (± %)	OUTPUT VOLTAGE RIPPLE TYPICAL (mv p-p)	PRICE 1-24
LVB5S	5	1000	5	68	2	2	1	50	79.00
LVB12S	12	415	5	70	2	2	1	25	79.00
LVB15S	15	330	5	70	2	2	1	25	79.00
LVB24S	24	210	5	72	2	2	1	25	79.00
LVB28S	28	175	5	72	2	2	1	25	79.00
LVB48S	48	105	5	74	2	2	1	25	79.00

Series LVC-Single Output 8 Watts

PICO PART NUMBER	OUTPUT VOLTAGE (V DC)	MAX. LOAD CURRENT (mA)	MAX * OUTPUT POWER (watts)	EFF. @ FULL LOAD TYPICAL (%)	OUTPUT VOLTAGE TOLERANCE (± %)	LOAD REGULATION 25%-100% LOAD (± %)	LINE REGULATION @ FULL LOAD (± %)	OUTPUT VOLTAGE RIPPLE TYPICAL (mv p-p)	PRICE 1-24
LVC5S	5	1400	7	68	2	2	1	50	89.00
LVC12S	12	666	8	74	2	2	1	25	89.00
LVC15S	15	533	8	74	2	2	1	25	89.00
LVC24S	24	333	8	74	2	2	1	25	89.00
LVC28S	28	285	8	74	2	2	1	25	89.00
LVC48S	48	166	8	74	2	2	1	25	89.00

*Max. power at nominal input. At 36 volt input derate by approx. 15%.

Series LVD-Single Output 10 Watts

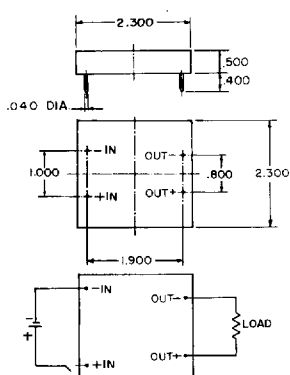
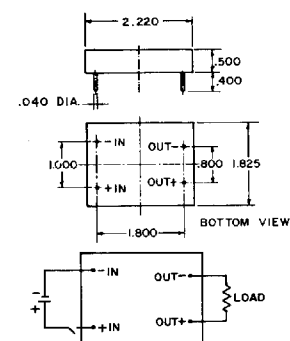
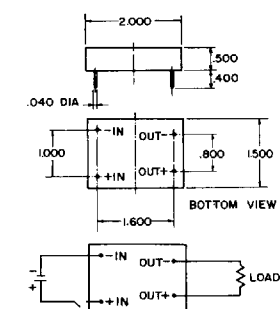
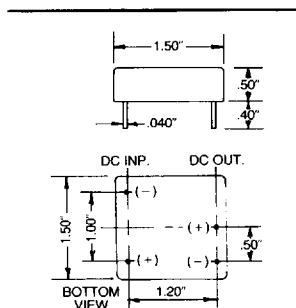
PICO PART NUMBER	OUTPUT VOLTAGE (V DC)	MAX. LOAD CURRENT (mA)	MAX. * OUTPUT POWER (watts)	EFF. @ FULL LOAD TYPICAL (%)	OUTPUT VOLTAGE TOLERANCE (± %)	LOAD REGULATION 25%-100% LOAD (± %)	LINE REGULATION @ FULL LOAD (± %)	OUTPUT VOLTAGE RIPPLE TYPICAL (mv p-p)	PRICE 1-24
LVD5S	5	1800	9	70	2	2	1	50	99.00
LVD12S	12	833	10	74	2	2	1	25	99.00
LVD15S	15	666	10	74	2	2	1	25	99.00
LVD24S	24	416	10	74	2	2	1	25	99.00
LVD28S	28	357	10	74	2	2	1	25	99.00
LVD48S	48	208	10	74	2	2	1	25	99.00

*Max. power at nominal input. At 36 volt input derate by approx. 15%.

For immediate engineering assistance or to place an order—Call Toll Free 800-431-1064

PICO Electronics, Inc.

453 N. MacQuesten Pkwy., Mt. Vernon, N.Y. 10552 • 914-699-5514 • FAX 914-699-5565



Series LV-Dual Output-DC-DC Converters

FEATURES:

- Excellent line regulation $\pm 1\%$ (36–80 VDC)
- Excellent load regulation, from 25% to 100%, $\pm 2\%$
- Continuous short circuit protection
- Encapsulated semiconductors, conservatively rated for maximum reliability
- Isolation: 100 megohms at 1000 VDC
- Wide input 36 VDC to 80 VDC

PICO's LV Series with wide input voltages are available in 36 different models. As switchers they accommodate a 36 to 80 VDC input, and offer both single and dual, regulated outputs. These isolated units will operate over a temperature range of -25°C to 70°C with no heat sink or electrical derating required. They are excellent for applications where the input voltage is highly variable such as in telecommunication systems.

Terminal Strips Available

.5" Height

TYPICAL CHARACTERISTICS:

Test conditions: 25°C ambient

Input voltage: 36–80 VDC

Converter frequency: 200 KHz to 1 MHz

Operating temperature: -20°C to $+70^{\circ}\text{C}$ ambient

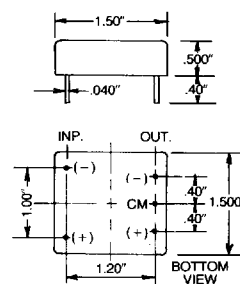
Storage temperature: -55°C to $+105^{\circ}\text{C}$

Output voltage temperature coefficient: $0.02\%/^{\circ}\text{C}$

Isolation: 1000 VDC

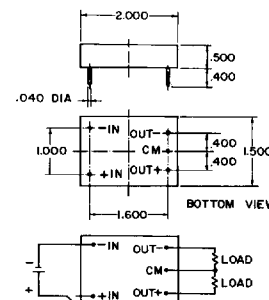
Series LVA-Dual Output-3 Watts

PICO PART NUMBER	OUTPUT VOLTAGE (V DC)	MAX. LOAD CURRENT PER OUT. (mA)	MAX OUTPUT POWER PER OUT. (watts)	EFF. @ FULL LOAD TYPICAL (%)	OUTPUT VOLTAGE TOLERANCE ($\pm\%$)	LOAD REGULATION 25%-100% LOAD ($\pm\%$)	LINE REGULATION @ FULL LOAD ($\pm\%$)	OUTPUT VOLTAGE RIPPLE TYPICAL (mv p-p)	PRICE 1-24
LVA5D	± 5	300	1.5	60	2	2	1	25	82.00
LVA12D	± 12	125	1.5	65	2	2	1	25	82.00
LVA15D	± 15	100	1.5	67	2	2	1	25	82.00



Series LVB-Dual Output-5 Watts

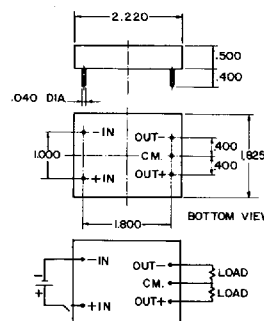
PICO PART NUMBER	OUTPUT VOLTAGE (V DC)	MAX. LOAD CURRENT PER OUT. (mA)	MAX OUTPUT POWER PER OUT. (watts)	EFF. @ FULL LOAD TYPICAL (%)	OUTPUT VOLTAGE TOLERANCE ($\pm\%$)	LOAD REGULATION 25%-100% LOAD ($\pm\%$)	LINE REGULATION @ FULL LOAD ($\pm\%$)	OUTPUT VOLTAGE RIPPLE TYPICAL (mv p-p)	PRICE 1-24
LVB5D	± 5	500	2.5	68	2	2	1	50	92.00
LVB12D	± 12	207	2.5	70	2	2	1	25	92.00
LVB15D	± 15	165	2.5	70	2	2	1	25	92.00



Series LVC-Dual Output 8 Watts

PICO PART NUMBER	OUTPUT VOLTAGE (V DC)	MAX. * LOAD CURRENT PER OUT. (mA)	MAX OUTPUT POWER PER OUT. (watts)	EFF. @ FULL LOAD TYPICAL (%)	OUTPUT VOLTAGE TOLERANCE ($\pm\%$)	LOAD REGULATION 25%-100% LOAD ($\pm\%$)	LINE REGULATION @ FULL LOAD ($\pm\%$)	OUTPUT VOLTAGE RIPPLE TYPICAL (mv p-p)	PRICE 1-24
LVC5D	± 5	700	3.5	68	2	2	1	50	102.00
LVC12D	± 12	333	4	74	2	2	1	25	102.00
LVC15D	± 15	266	4	74	2	2	1	25	102.00

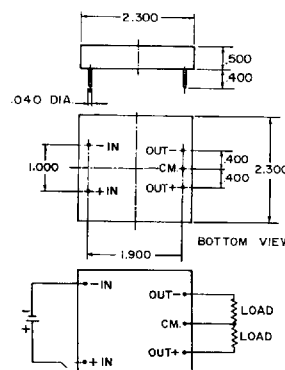
*Max. power at nominal input. At 36 volt input derate by approx. 15%.



Series LVD-Dual Output 10 Watts

PICO PART NUMBER	OUTPUT VOLTAGE (V DC)	MAX. * LOAD CURRENT PER OUT. (mA)	MAX OUTPUT POWER PER OUT. (watts)	EFF. @ FULL LOAD TYPICAL (%)	OUTPUT VOLTAGE TOLERANCE ($\pm\%$)	LOAD REGULATION 25%-100% LOAD ($\pm\%$)	LINE REGULATION @ FULL LOAD ($\pm\%$)	OUTPUT VOLTAGE RIPPLE TYPICAL (mv p-p)	PRICE 1-24
LVD5D	± 5	900	4.5	70	2	2	1	50	112.00
LVD12D	± 12	416	5	74	2	2	1	25	112.00
LVD15D	± 15	333	5	74	2	2	1	25	112.00

*Max. power at nominal input. At 36 volt input derate by approx. 15%.



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