

T-57-11

Series LV-Single Output-DC-DC Converters

Hi Reliability

Industrial Grade

Wide Input Voltage (36-80 VDC)

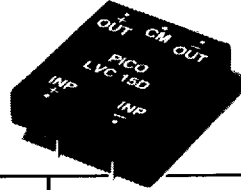
Isolated 1000 VDC

Fully Regulated—up to 10 Watts

Short Circuit Protected

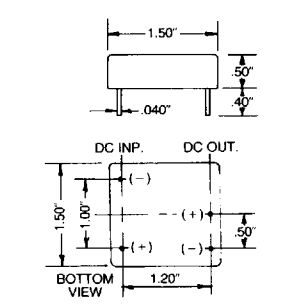
NO EXTERNAL CAPACITORS REQUIRED

Terminal Strips Available



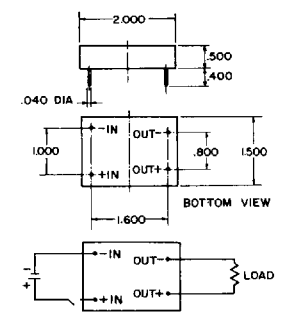
Series LVA-Single Output-3 Watts

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



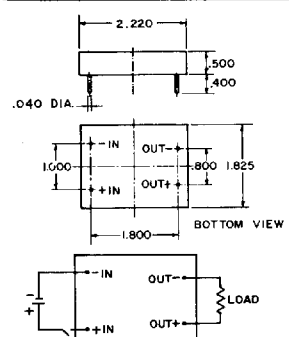
Series LVB-Single Output-5 Watts

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

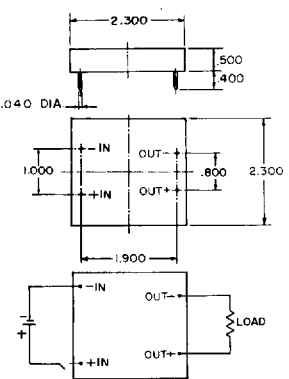
PICO PART NUMBER	OUTPUT VOLTAGE (V DC)	MAX. LOAD CURRENT (mA)	MAX * OUTPUT POWER (watts)	EFF. @ FULL LOAD TYPICAL (%)	OUTPUT VOLTAGE TOLERANCE (± %)	LOAD REGULATION 25%-100% LOAD (± %)	LINE REGULATION @ FULL LOAD (± %)	OUTPUT VOLTAGE RIPPLE TYPICAL (mv p-p)	PRICE 1-24
LVC5S	5	1400	7	68	2	2	1	50	89.00
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

.5" Height

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.

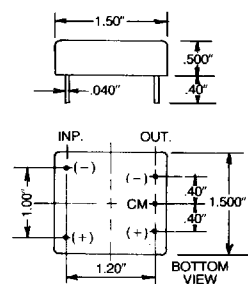
Terminal Strips Available

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

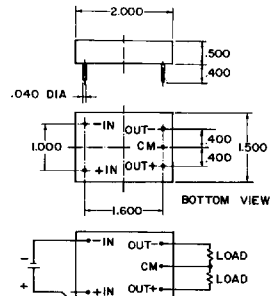
Series LVA-Dual Output-3 Watts

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

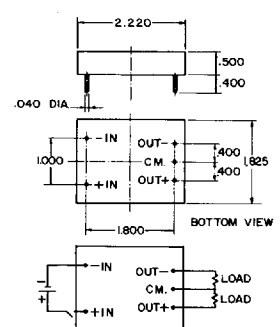
PICO PART NUMBER	OUTPUT VOLTAGE (V DC)	MAX. LOAD CURRENT PER OUT. (mA)	MAX OUTPUT POWER PER OUT. (watts)	EFF. @ FULL LOAD TYPICAL (%)	OUTPUT VOLTAGE TOLERANCE ($\pm\%$)	LOAD REGULATION 25%-100% LOAD ($\pm\%$)	LINE REGULATION @ FULL LOAD ($\pm\%$)	OUTPUT VOLTAGE RIPPLE TYPICAL (mv p-p)	PRICE 1-24
LVB5D	± 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

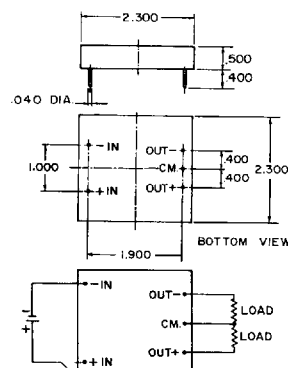
*Max. power at nominal input. At 36 volt input derate by approx. 15%.



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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