

BC SERIES ISOLATED DUAL OUTPUT NON-REGULATED

DC-DC 1-2 WATT

The VEROPOWER BC series are miniature high efficiency non-regulated dc-dc converters, designed to be driven from a regulated supply and to provide power locally for RS232, OP AMP's or similar devices.



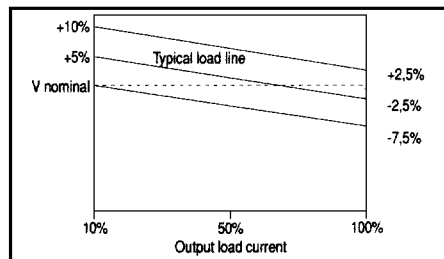
FEATURES

- PCB mountable
- 1000 VDC isolation
- No derating to 80°C
- High efficiency - up to 80%
- 100% burned in
- Triple tested
- Low profile
- SIL and DIL packages
- MTBF typically >500000 hours at 25°C
- **12 MONTH WARRANTY**

PIN ALLOCATION

SIL	DIL	Function
1	14	+V in
2	1	0V in
6	9	+V out
5	8	0V out
4	11	-V out
-	7	N/C

VOLTAGE TOLERANCE



ELECTRICAL SPECIFICATIONS

All specifications are typical at nominal line, full load and 25°C unless otherwise stated.

INPUT SPECIFICATION

Input voltage: ^{Note 1} (DC)	5V, 12V
Input voltage range (all models):	±10%

OUTPUT SPECIFICATION

Output voltage for each input voltage: ^{Note 2} (DC)	±5V, ±12V, ±15V
Voltage accuracy at 50% load (all models):	see voltage tolerance graph
Ripple (all models typically):	1Watt 110 mV p-p; 2Watt 150 mV p-p
Short circuit protection:	short term

REGULATION

Line 10% - 100% full load (all models):	1,2% / 1% V_{IN}
Load 10% - 100% full load (all models):	+10% to -7,5%

ISOLATION

Resistance:	$10^3 \Omega$
Voltage min:	1000 VDC

ENVIRONMENTAL SPECIFICATION

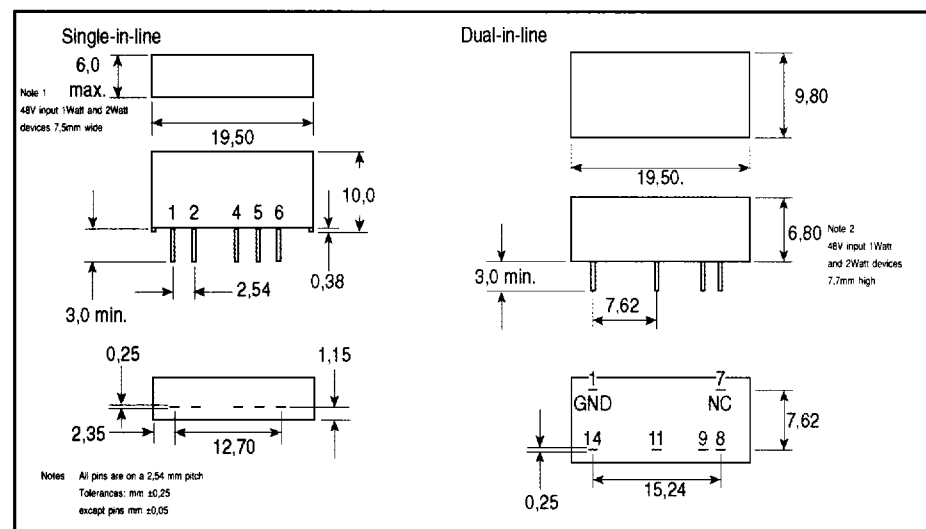
Temperature - operating:	-20°C to +70°C
Temperature - storage:	-55°C to +110°C
Derating:	for temperatures outside operating range contact technical sales

PHYSICAL SPECIFICATION

Dimensions (mm max) SIL:	see mechanical details
Weight: SIL / DIL:	2,35g
Case material:	non-conductive plastic

^{Note 1} 24 and 48V input versions are available to special order - please contact Technical Sales

^{Note 2} Alternative output voltages are available to special order - please contact Technical Sales



VEROPOWER BC SERIES 1-2W CONVERTERS

Ordering information

Power	Output Voltage / Current DC	Order code			
		SIL		DIL	
		5 VDC input	12 VDC input	5 VDC input	12 VDC input
1 Watt	±5V/100mA	153-1013H	-	153-1010J	-
	±12V/42mA	153-1014D	153-1016G	153-1011E	153-1017L
	±15V/34mA	153-1015L	-	153-1012A	-
2 Watt	±5V/100mA	153-2013A	-	153-2010B	-
	±12V/42mA	153-2014H	153-2016L	153-2011J	153-2017G
	±15V/34mA	153-2015D	-	153-2012E	-

Supplied as Pkt. 10 pcs.