

The Tech9 Corporation Low Cost Buck-boost DC to DC Power Converter with Wide Input Range series is an economical Power Converter that features accurate DC output that is short circuit tolerant with wide input voltage range suitable for a variety of power sources. This series is useful for a wide range of applications. It comes in a compact package that can be conveniently mounted virtually anywhere.

- Non floating design
- Buck-boost design
- Short circuit tolerant
- Small size
- Wide temperature range, 0°C to 70°C
- Operates on DC input over a wide range of source voltages, 7V to 70V
- Available in a range of output voltages: 3, 3.3, 5, 6, 9, 12, and 15 volt

AVAILABLE OPTIONS (Call factory)

- Automotive surge and transient tolerant ("load dump") to SAE J1455 and ISO 7637-2
- Ferrite bead noise suppression
- Extended Temperature, -40°C to +85°C



Absolute Maximum Ratings:

Subjecting the unit to stresses beyond these limits may damage the unit.

Input Voltage (With Load Dump Option)	-1000	70	Volts
	-70	70	Volts
Temperature Operating	0	70	°C
	-40	70	°C

Electrical Specifications:

All specifications are for an input of +24 volts dc 20 °C and 0.5 amp load unless otherwise indicated.
All specifications subject to change without notice.
Refer to LM5118 spec sheet for additional operating details (Note: does not use "hic-up" mode)

	Min	Typical	Max	Comments
Output Voltage	Nom -2%	Nom	Nom +2%	No load voltage
Nom is one of 3, 3.3, 5, 6, 9, 12 or 15 volts	Nom -5%	Nom -3%	Nom	Voltage at 1 amp load
Output Current	1.0	1.2	1.1	Amps short circuit Amps when loaded to 90% of nom output V
VOUT/VIN Ratio			6	
Input Voltage Range (With Load Dump Option)	7 7		70 50	Volts,DC Volts,DC

ORDERING INFORMATION:

STANDARD MODEL

MODEL PCU-NF- - N for no enclosure(pcb only)
E for enclosure
F for enclosure with mounting flanges

3 for 3V output
3.3 for 3.3V output
5 for 5V output
6 for 6V output
9 for 9V output
12 for 12V output
15 for 15V output
CT for Custom Call Factory

STANDARD MODEL WITH LOAD DUMP OPTION

MODEL PCU-NF-LD- - N for no enclosure(pcb only)
E for enclosure
F for enclosure with mounting flanges

3 for 3V output
3.3 for 3.3V output
5 for 5V output
6 for 6V output
9 for 9V output
12 for 12V output
15 for 15V output
CT for Custom Call Factory

ORDER ONLINE AT www.t9corp.com

