

Excellent Integrated System Limited

Stocking Distributor

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[CUI Inc.](#)
[VED15-D24-T515](#)

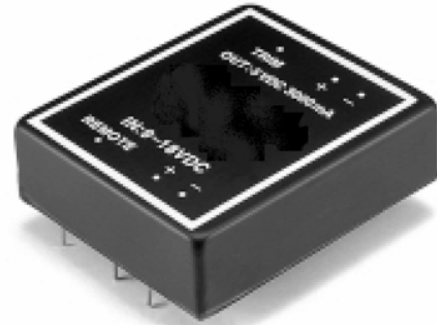
For any questions, you can email us directly:
sales@integrated-circuit.com

PART NUMBER: VED15 series

DESCRIPTION: wide input DC/DC converter

features

- 15W isolated output
- efficiency to 84%
- 200KHz switching frequency
- 2:1 input range
- six sided shield
- remote ON/OFF control



model number	input voltage	output voltage	output current	input current		efficiency
				no load	full load	
VED15-D12-S5	9-18VDC	5VDC	3000mA	20mA	1700mA	77%
VED15-D12-S12	9-18VDC	12VDC	1250mA	20mA	1600mA	78%
VED15-D12-S15	9-18VDC	15VDC	1000mA	20mA	1600mA	78%
VED15-D12-D12	9-18VDC	±12VDC	±625mA	35mA	1520mA	82%
VED15-D12-D15	9-18VDC	±15VDC	±500mA	35mA	1520mA	82%
VED15-D12-T512	9-18VDC	5/±12VDC	1500/±310mA	30mA	1600mA	78%
VED15-D12-T515	9-18VDC	5/±15VDC	1500/±250mA	30mA	1600mA	78%
VED15-D12-T5125	9-18VDC	+5/+12/-5VDC	1500/310/500mA	30mA	1470mA	78%
VED15-D24-S5	18-36VDC	5VDC	3000mA	25mA	810mA	77%
VED15-D24-S12	18-36VDC	12VDC	1250mA	25mA	780mA	80%
VED15-D24-S15	18-36VDC	15VDC	1000mA	25mA	780mA	80%
VED15-D24-D12	18-36VDC	±12VDC	±625mA	25mA	750mA	84%
VED15-D24-D15	18-36VDC	±15VDC	±500mA	25mA	750mA	84%
VED15-D24-T512	18-36VDC	5/±12VDC	1500/±310mA	25mA	780mA	80%
VED15-D24-T515	18-36VDC	5/±15VDC	1500/±250mA	25mA	780mA	80%
VED15-D24-T5125	18-36VDC	+5/+12/-5VDC	1500/310/500mA	25mA	715mA	80%
VED15-D48-S5	36-72VDC	5VDC	3000mA	10mA	410mA	77%
VED15-D48-S12	36-72VDC	12VDC	1250mA	10mA	390mA	80%
VED15-D48-S15	36-72VDC	15VDC	1000mA	10mA	390mA	80%
VED15-D48-D12	36-72VDC	±12VDC	±625mA	15mA	380mA	82%
VED15-D48-D15	36-72VDC	±15VDC	±500mA	15mA	380mA	82%
VED15-D48-T512	36-72VDC	5/±12VDC	1500/±310mA	15mA	380mA	82%
VED15-D48-T515	36-72VDC	5/±15VDC	1500/±250mA	15mA	380mA	82%
VED15-D48-T5125	36-72VDC	+5/+12/-5VDC	1500/310/500mA	15mA	350mA	82%



V-INFINITY
 a division of CUI INC

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date 08/2007

PART NUMBER: VED15 series

DESCRIPTION: wide input DC/DC converter

INPUT

input voltage range	12V 9-18V 24V 18-36V 48V 36-72V
input filter	PI Type

OUTPUT

voltage accuracy	single output	±1.0% max.
	dual +output	±1.0% max.
	-output	±3.0% max.
	triple, 5V 12V/15V	±2.0% max. ±3.0% max.
voltage balance (dual)		±1.0%max
transient response: 25% step load change		<500µ sec.
	dual, FL-1/2±1% error band	<500µ sec.
external trim adj. range		±10%
ripple & noise	20MHz BW	10mV RMS., max
		75mV pk-pk., max
temperature coefficient		±0.02%/°C
short circuit protection		continuous
line regulation ¹	single/dual	±0.2% max.
	triple	±1.0% max.
load regulation ²	single/dual	±1.0% max.
	triple	±5.0% max.

GENERAL SPECIFICATIONS

efficiency	see table
isolation voltage	500VDC min.
isolation resistance	10 ⁹ Ohm min.
switching frequency	200KHz, Type
operating temperature range	-25°C to +71°C
case temperature	100°C max.
storage temperature	-55°C to +105°C
cooling	free air convection
EMI/RFI	six sided continuous shield
dimensions	2.56x3.0x0.83 inches
	(65x76.2x21.1mm)
case material	black coated copper with non-conductive base

NOTES:

1. measured from high line to low line
2. measured from full load to 1/4 load

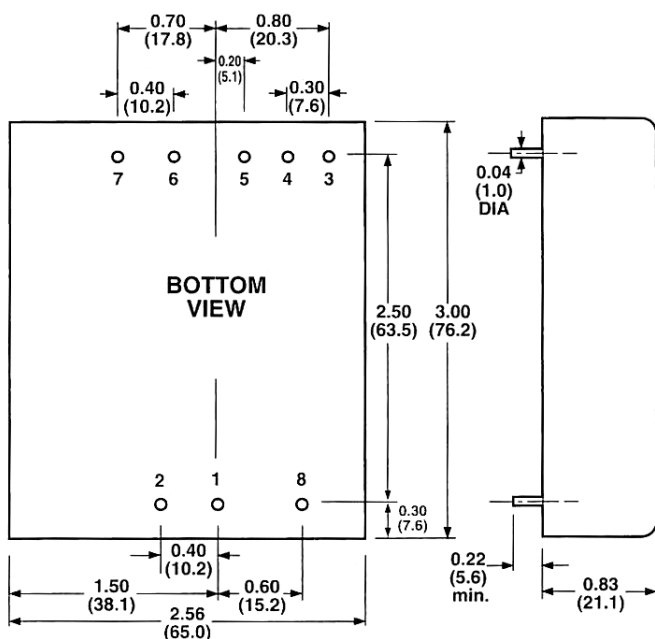


PART NUMBER: VED15 series

DESCRIPTION: wide input DC/DC converter

DIMENSIONS (mm)

All Dimensions In Inches(mm)
Tolerance .xx= ±0.04, .xxx= ±0.10



PIN CONNECTION

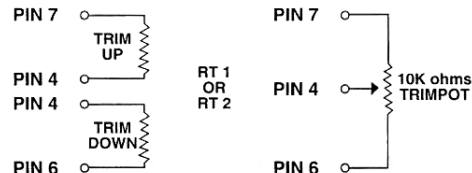
Pin	Single Output	Daul Output	Triple Output
1.	+Input	+Input	+Input
2.	-Input	-Input	-Input
3.	No Pin	+Output	+Output
4.	Output Trim	Common	Common
5.	No Pin	-Output	-Output
6.	+Output	No Pin	+5V Output
7.	-Output	No Pin	No Pin
8.	Remote On/Off Control		

Remote On/Off Control

Logic Compatibility	CMOS or Open Collector TTL
EC-On	>+5.5VDC or Open Circuit
EC-Off	<1.8 VDC
Shutdown Idle Current	10 mA
Control Common	Referenced to Input Minus

External Output Trimming

Output may optionally be externally trimmed (±10%) with a fixed resistor or an external trimpot as shown.



DERATING CURVE

