

**PART NUMBER:** VCD30 series**DESCRIPTION:** DC/DC converter**INPUT**

input voltage range	12V:	9-18V
	24V:	18-36V
	48V:	36-72V
input filter		Pi type

OUTPUT

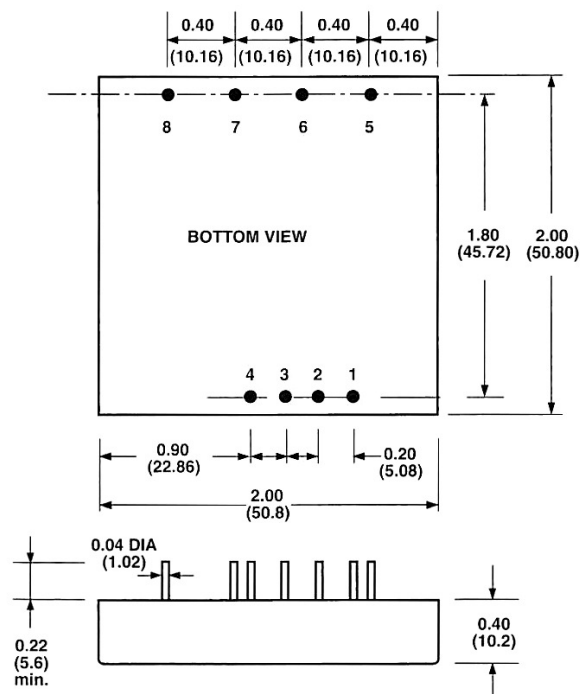
voltage accuracy	single output	±2.0% max.
	dual +output	±2.0% max.
	-output	±3.0% max.
	triple, 5V	±2.0% max.
	12V/15V	±5.0% max.
voltage balance (dual)		±1.0% max
transient response:	single output: 25% step load change	<500µS
	dual output: FL~1/2L, ±1% error band	<500µS
external trim adj. range		±10%
ripple & noise	20MHz BW	10mV RMS., max
		75mV p-p, max
temperature coefficient		±0.02%/°C
short circuit protection		continuous
line regulation ¹	single/dual	±0.5% max.
	triple	±1.0% max.
load regulation ²	single/dual	±1.0% max.
	triple	±5.0% max.

GENERAL SPECIFICATIONS

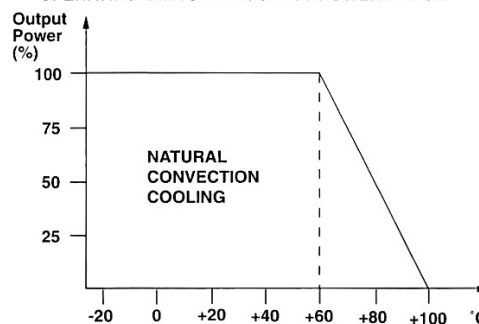
efficiency	see table
isolation voltage	500VDC min.
isolation resistance	10 ⁹ Ohm min.
switching frequency	300KHz, Typical
case grounding	connected to output common
operating temperature range	-25°C to +71°C
case temperature	100°C max.
cooling	free-air convection
storage temperature	-55°C to +105°C
safety	UL 60950-1 file # E222736
EMI/RFI	six sided continuous shield
dimensions	2x2x0.4 inches
	(50.8x50.8x10.2mm)
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: VCD30 series**DESCRIPTION:** DC/DC converter**DIMENSIONS (mm)**
 All Dimensions In Inches (mm)
 Tolerance .xx= ±.04, .xxx= ±.010
**Remote On/Off Control**

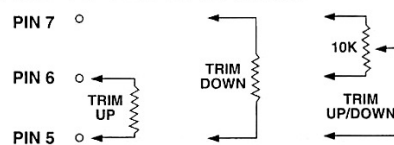
Logic Compatibility	CMOS or Open Collector TTL
EC-On	>+5.5VDC or Open Circuit
EC-Off	<1.8 VDC
Shutdown Idle Current	10 mA
Control Common	Referenced to Input Minus

OPERATING LIMITS AND OUTPUT POWER RANGE**PIN CONNECTION**

Pin	Single	Dual	Triple
1.	Remote On/Off Control		
2.	No Pin	No Pin	No Pin
3.	-Vin	-Vin	-Vin
4.	+Vin	+Vin	+Vin
5.	Trim	Trim	-Aux. Out
6.	-Vout	-Vout	Common
7.	+Vout	Common	+5V out
8.	No Pin	+Vout	+Aux. Out

External Output Trimming

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

**DERATING CURVE**