

**PART NUMBER:** VCD15

**DESCRIPTION:** dc-dc converter

**features**

- 15W isolated output
- 2:1 Input range
- efficiency to 82%
- 200 KHz switching frequency
- regulated outputs
- Pi input filter
- continuous short circuit protection



MODEL	input voltage	output voltage	output current	input current		efficiency
				no load	full load	
VCD15-D12-S3R3	9-18VDC	3.3VDC	3000mA	30mA	1178mA	70%
VCD15-D12-S5	9-18VDC	5VDC	3000mA	30mA	1660mA	75%
VCD15-D12-S12	9-18VDC	12VDC	1250mA	30mA	1625mA	78%
VCD15-D12-S15	9-18VDC	15VDC	1000mA	30mA	1625mA	78%
VCD15-D12-D12	9-18VDC	±12VDC	±625mA	35mA	1620mA	77%
VCD15-D12-D15	9-18VDC	±15VDC	±500mA	35mA	1620mA	77%
VCD15-D12-D5	9-18VDC	±5VDC	±1500mA	35mA	1620mA	77%
VCD15-D24-S3R3	18-36VDC	3.3VDC	3000mA	15mA	557mA	74%
VCD15-D24-S5	18-36VDC	5VDC	3000mA	15mA	812mA	78%
VCD15-D24-S12	18-36VDC	12VDC	1250mA	20mA	772mA	81%
VCD15-D24-S15	18-36VDC	15VDC	1000mA	20mA	772mA	81%
VCD15-D24-D12	18-36VDC	±12VDC	±625mA	25mA	780mA	80%
VCD15-D24-D15	18-36VDC	±15VDC	±500mA	25mA	780mA	80%
VCD15-D24-D5	18-36VDC	±5VDC	±1500mA	25mA	780mA	80%
VCD15-D48-S3R3	36-72VDC	3.3VDC	3000mA	20mA	271mA	76%
VCD15-D48-S5	36-72VDC	5VDC	3000mA	10mA	390mA	80%
VCD15-D48-S12	36-72VDC	12VDC	1250mA	15mA	381mA	82%
VCD15-D48-S15	36-72VDC	15VDC	1000mA	15mA	381mA	82%
VCD15-D48-D12	36-72VDC	±12VDC	±625mA	20mA	386mA	81%
VCD15-D48-D15	36-72VDC	±15VDC	±500mA	20mA	386mA	81%
VCD15-D48-D5	36-72VDC	±5VDC	±1500mA	20mA	386mA	81%

**NOTE:**

add suffix "-1" to the model number for remote on/off option

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**INPUT**

parameter	conditions/description	min	nom	max	units
input voltage range	12 V	9		18	V
	24 V	18		36	V
	48 V	36		72	V
input filter	pi type				

**OUTPUT**

parameter	conditions/description	min	nom	max	units
voltage accuracy	single		±1		%
	dual +		±1		%
	dual -		±3		%
voltage balance (dual)			±1		%
temperature coefficient			±0.02		%/°C
transient response	single: 25% step load change	500			μ sec.
	dual: FL-122L, ±1% error band	500			μ sec.
ripple & noise, 20 MHz BW				10	mV rms
				75	mVp-p
short circuit protection	continuous				
line regulation	measured from high line to low line		±0.2		%
load regulation	measured from full load to 1/4 load		±1.0		%

**GENERAL SPECIFICATIONS**

parameter	conditions/description	min	nom	max	units
efficiency	see table				
isolation voltage		500			V dc
isolation resistance			10 <sup>9</sup>		Ω
switching frequency			200		kHz
operating temperature range		-25		+71	°C
case temperature				100	°C
cooling	free-air convection				
storage temperature range		-40		100	°C
EMI/RFI	conductive EMI meet EN55022 class B				
dimensions	2 x 2 x 0.4 inches (50.8 x 50.8 x 10.2 mm)				
case material	black coated copper with non-conductive base				

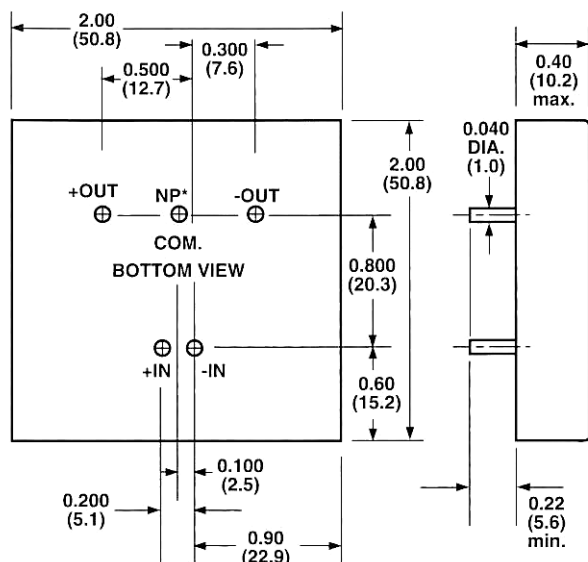
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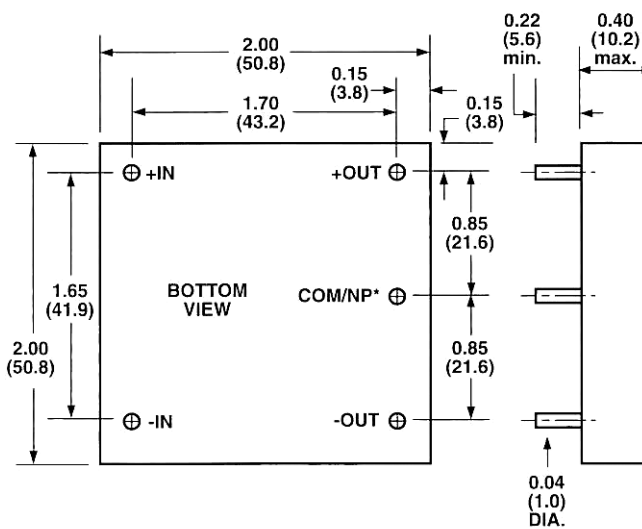
## DIMENSIONS (mm)

All Dimensions In Inches(mm)  
Tolerance .xx= ±.04, .xxx= ±.010

STANDARD PIN CONFIGURATION



ALTERNATIVE PIN CONFIGURATION SUFFIX "S"



\*NP-NO PIN ON SINGLE OUTPUT MODELS

## DERATING CURVE

