

PART NUMBER: VCDE6 series

DESCRIPTION: DC/DC converter

features

- 5-6W isolated output
- 2:1 input range
- efficiency to 82%
- Pi input filter
- continuous short circuit protection
- regulated outputs



model number	input voltage	output voltage	output current	input current		efficiency
				no load	full load	
VCDE6-D12-S5	9-18VDC	5VDC	1000mA	7.5mA	545mA	77%
VCDE6-D12-S12	9-18VDC	12VDC	470mA	7.5mA	585mA	80%
VCDE6-D12-S15	9-18VDC	15VDC	400mA	7.5mA	625mA	80%
VCDE6-D12-D12	9-18VDC	±12VDC	±230mA	12mA	575mA	80%
VCDE6-D12-D15	9-18VDC	±15VDC	±190mA	12mA	590mA	80%
VCDE6-D24-S5	18-36VDC	5VDC	1000mA	5mA	265mA	78%
VCDE6-D24-S12	18-36VDC	12VDC	470mA	5mA	285mA	82%
VCDE6-D24-S15	18-36VDC	15VDC	400mA	5mA	305mA	82%
VCDE6-D24-D12	18-36VDC	±12VDC	±230mA	7.5mA	285mA	81%
VCDE6-D24-D15	18-36VDC	±15VDC	±190mA	7.5mA	295mA	81%
VCDE6-D48-S5	36-72VDC	5VDC	1000mA	2mA	133mA	78%
VCDE6-D48-S12	36-72VDC	12VDC	470mA	2mA	143mA	81%
VCDE6-D48-S15	36-72VDC	15VDC	400mA	2mA	154mA	81%
VCDE6-D48-D12	36-72VDC	±12VDC	±230mA	3mA	142mA	81%
VCDE6-D48-D15	36-72VDC	±15VDC	±190mA	3mA	147mA	81%

PART NUMBER: VCDE6 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	±2.0% max.	
voltage balance(dual)	±1.0% max.	
temperature coefficient	±0.05% /°C	
ripple & noise, 20MHz BW	5V:	100mV p-p max.
	12V:/15V:	1% p-p max.
short circuit protection	continuous	
line regulation, single/dual ¹	±0.5%	
load regulation, single ² dual ³	±0.5%	
	±1.0%	

GENERAL SPECIFICATIONS

efficiency	see table	
isolation voltage	500VDC min.	
isolation resistance	10 ⁹ Ohm	
switching frequency	100KHz, min.	
operating temperature range	-25°C to +71°C	
case temperature (plastic case) (copper case)	95°Cmax.	
	100° max.	
cooling	free-air convection	
storage temperature range	-40°C to +100°C	
dimensions	2x2x0.4 inches	
	(50.8x50.8x10.2mm)	
case material	standard models	non-conductive black plastic
	suffix "M" models	black-coated copper with non-conductive base

NOTES:

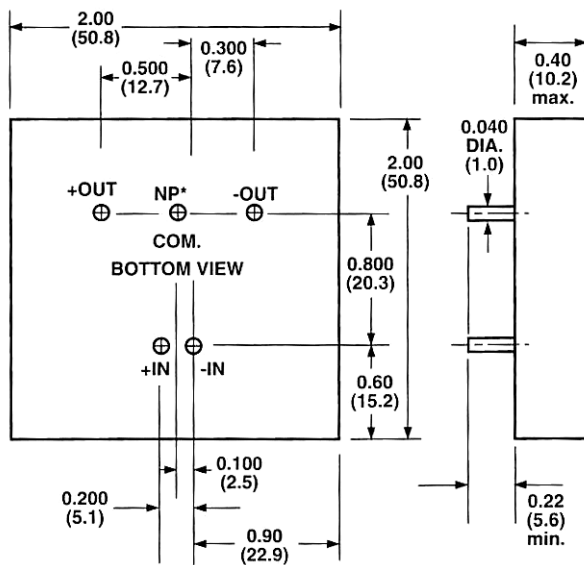
1. measured from high line to low line
2. measured from full load to 10%load
3. measured from full load to 1/4 load

PART NUMBER: VCDE6 series

DESCRIPTION: DC/DC converter

DIMENSIONS (mm)

STANDARD PIN CONFIGURATION
*NP (NO PIN) ON SINGLE OUTPUT MODELS
All Dimensions In Inches(mm)
Tolerance .xx= ±.04, .xxx= ±.010



DERATING CURVE

