PART NUMBER: VCS6 series

DESCRIPTION: DC/DC converter

features
- **high performance**
- **efficiency to 60%**
- **regulated outputs**
- **Pi Input Filter**
- **low ripple and noise**
- **500 VDC isolation**



RoHS

model number	input voltage	output voltage	output current	input current no load	input current full load	alt. pin out
VCS6-S5-S5	5VDC	5VDC	1000mA	60mA	1700mA	S
VCS6-S5-S12	5VDC	12VDC	470mA	70mA	1750mA	S
VCS6-S5-S15	5VDC	15VDC	400mA	70mA	1800mA	S
VCS6-S5-D12	5VDC	±12VDC	±230mA	130mA	1700mA	S
VCS6-S5-D15	5VDC	±15VDC	±190mA	140mA	1700mA	S
VCS6-S12-S5	12VDC	5VDC	1000mA	40mA	690mA	S
VCS6-S12-S12	12VDC	12VDC	470mA	40mA	700mA	S
VCS6-S12-S15	12VDC	15VDC	400mA	40mA	750mA	S
VCS6-S12-D12	12VDC	±12VDC	±230mA	60mA	710mA	S
VCS6-S12-D15	12VDC	±15VDC	±190mA	60mA	710mA	S
VCS6-S24-S5	24VDC	5VDC	1000mA	20mA	350mA	S
VCS6-S24-S12	24VDC	12VDC	470mA	20mA	340mA	S
VCS6-S24-S15	24VDC	15VDC	400mA	20mA	360mA	S
VCS6-S24-D12	24VDC	±12VDC	±230mA	35mA	360mA	S
VCS6-S24-D15	24VDC	±15VDC	±190mA	35mA	360mA	S
VCS6-S28-S5	28VDC	5VDC	1000mA	20mA	290mA	S
VCS6-S28-S12	28VDC	12VDC	470mA	20mA	300mA	S
VCS6-S28-S15	28VDC	15VDC	400mA	20mA	310mA	S
VCS6-S28-D12	28VDC	±12VDC	±230mA	25mA	290mA	S
VCS6-S28-D15	28VDC	±15VDC	±190mA	25mA	290mA	S
VCS6-S48-S5	48VDC	5VDC	1000mA	14mA	170mA	S
VCS6-S48-S12	48VDC	12VDC	470mA	14mA	170mA	S
VCS6-S48-S15	48VDC	15VDC	400mA	14mA	180mA	S
VCS6-S48-D12	48VDC	±12VDC	±230mA	20mA	170mA	S
VCS6-S48-D15	48VDC	±15VDC	±190mA	20mA	170mA	S

PART NUMBER: VCS6 series **DESCRIPTION:** DC/DC converter

INPUT

input voltage range	±10%
input filter	PI Type

OUTPUT

voltage accuracy		±1% max.
voltage balance, dual output		±0.5% max.
ripple & noise 20MHz BW,		
	single output	50mV p-p., max
	dual output	35mV p-p., max
temperature coefficient		
	single output	±0.02%/°C
	dual output	±0.01%/°C
short circuit protection		short term
line regulation[1]		±0.02% max
load regulation[2]		±0.05% max

GENERAL SPECIFICATIONS

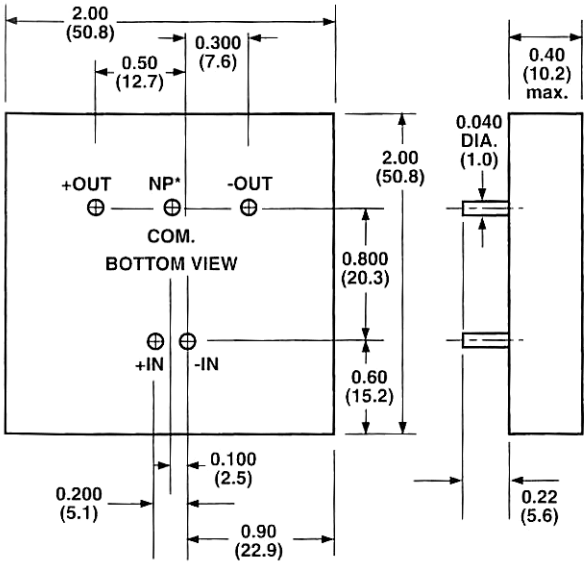
efficiency		60%
isolation voltage		500VDC min.
isolation capacitance		80pF
isolation resistance		10^9Ohms
switching frequency		20KHz, min.
operating temperature range		-25°C to +71°C
storage temperature		-40°C to +100°C
case temp.		
	plastic case	95°C max.
	copper case	100°C max.
cooling		free air convection
EMI/RFI		six sided continuous shield
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

PART NUMBER: VCS6 series **DESCRIPTION:** DC/DC converter

DIMENSIONS (mm)

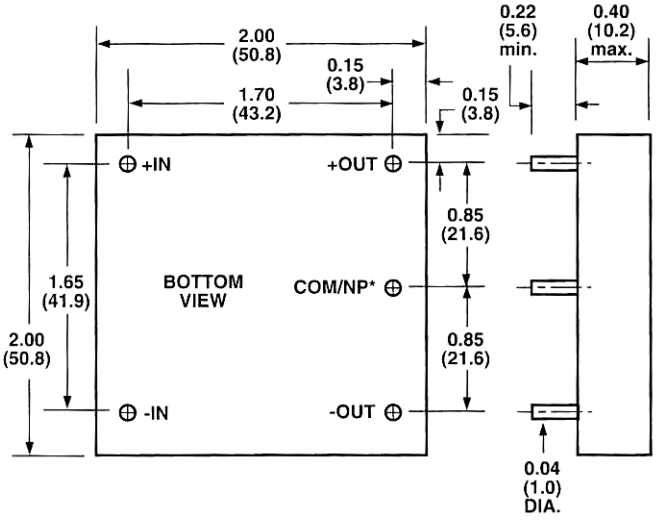
All Dimensions In Inches(mm)
Tolerance .xx= ±.04, .xxx= ±.010

STANDARD PIN CONFIGURATION



NP* - NO PIN ON SINGLE OUTPUT MODLES

ALTERNATE PIN CONFIGURATION SUFFIX "S"



INPUT VOLTAGE	60% FL	80% FL	100% FL
5V	4.4-6.5V	4.5-6.0V	4.65-5.5V
12V	10.56-15.6V	10.8-14.4V	11.16-13.2V
24V	21.12-31.2V	21.6-28.8V	22.32-26.4V
28V	24.64-36.4V	25.2-33.6V	26.04-30.8V
48V	42.24-62.4V	43.2-57.6V	44.64-52.8V

DERATING CURVE

