PART NUMBER: VCS6

DESCRIPTION: dc-dc converter

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



RoHS

MODEL

MODEL	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

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

PART NUMBER: VCS6 **DESCRIPTION:** dc-dc converter

INPUT

parameter	conditions/description	min	nom	max	units
input voltage range			±10%		V
input filter	pi type				

OUTPUT

parameter	conditions/description	min	nom	max	units
voltage accuracy			±1		%
voltage balance (dual)			±0.5		%
temperature coefficient	single		±0.02		%/°C
	dual		±0.01		%/°C
ripple & noise, 20 MHz BW	single			50	mVp-p
	dual			35	mVp-p
short circuit protection	short term				
line regulation			±0.2		%
load regulation			±0.5		%

GENERAL SPECIFICATIONS

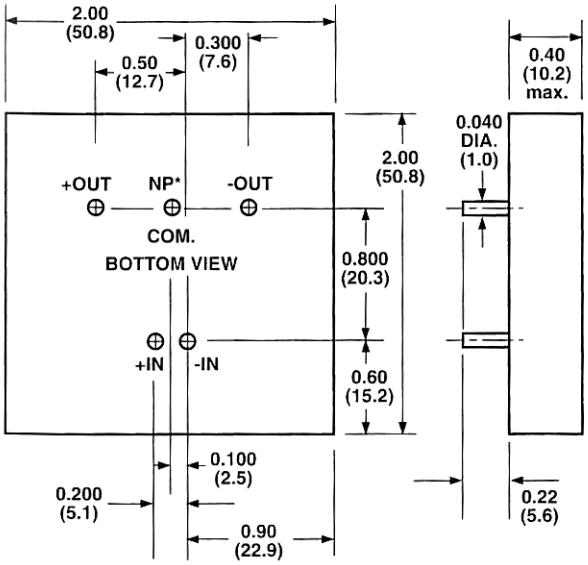
parameter	conditions/description	min	nom	max	units
efficiency				60	%
isolation voltage		500			V dc
isolation resistance			10^9		Ω
switching frequency		20			kHz
operating temperature range		-25		+71	°C
case temperature	plastic case			95	°C
	copper case			100	°C
cooling	free-air convection				
storage 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					
	standard models: non-conductive black plastic				
	suffix “M” models: black coated copper with non-conductive base				

PART NUMBER: VCS6 **DESCRIPTION:** dc-dc converter

DIMENSIONS (mm)

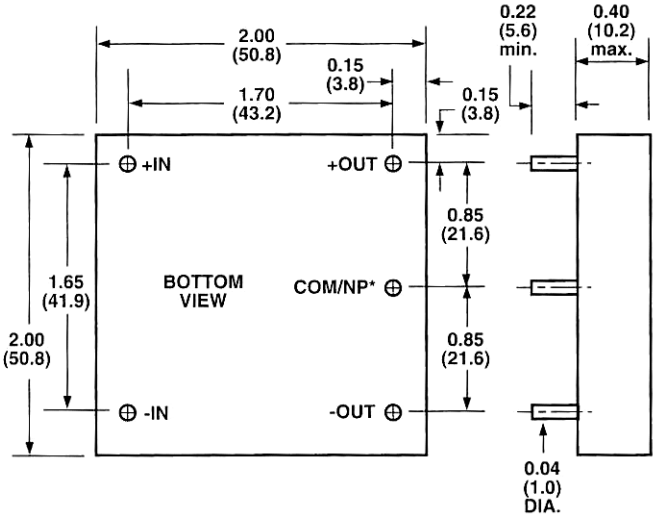
All Dimensions In Inches(mm)
Tolerance .xx= ±.04, .xxx= ±.010

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

