



Railway/Transportation system applications including communications systems, information display, lighting, control systems, ticket machines, passenger

entertainment, public address systems, door control, industrial power systems and power

Micro Family 72V Input

2.28 x 1.45 x 0.5in [57,9 x 36,8 x 12,7mm]

DC-DC Converter Module

Features & Benefits

- DC input range: 43 110V (continuous)
- Isolated output
- Encapsulated circuitry for shock and • vibration resistance
- Extended temperature range • (-55 to +100°C)
- Input surge withstand: 150V for 100ms
- DC output: 3.3 48V •
- Programmable output: 10 110%
- Regulation: ±0.2% no load to full load •
- Efficiency: Up to 87% •
- Maximum operating temp: 100°C, full load
- Power density: up to 90W per cubic inch
- Height above board: 0.43in [10,9mm] •
- Parallelable, with N+M fault tolerance •
- Low-noise ZCS/ZVS architecture
- RoHS Compliant (with F or G pin option)

Product Overview

These DC-DC converter modules use advanced power processing, control and packaging technologies to provide the performance, flexibility, reliability and cost effectiveness of a mature power component.

High-frequency ZCS/ZVS switching provides high power density with low noise and high efficiency.

Part Numbering

72C e.g. V72C15C150BL Β **Output Power** Product Grade Temperatures (°C) Pin Style Baseplate Blank: Slotted Product Type Output Voltage Finish **3V3** = 3.3V **5** = 5V **8** = 8V Grade Operating Storage Blank: Short Tin/Lead Vout Pour V = Standard 2: Threaded -10 to +100 75W Tin/Lead Ε -20 to +1253 3V L: Long S: Short ModuMate S = Enhanced = 3: Through-hole C T H efficiency = -20 to +100 -40 to +125 5V 100W Gold **12** = 12V **15** = 15V **24** = 24V (avail. ≤12 -40 to +100 -40 to +125 8V 12V 100W **N:** Long ModuMate **F:** Short RoHS Gold = -55 to +125V_{OUT} only) = -40 to +100 150W Gold M -55 to +100 -65 to +125 15V 150W G: Long RoHS = Gold **28** = 28V **36** = 36V K: Extra Long RoHS 24V 150W Gold 28V 150W 48 = 48V 36V 150W 48V 150W

Note: Product images may not highlight current product markings.

Rev 3.5 02/2021



Absolute Maximum Ratings

For details on proper operation please refer to the:

Design Guide & Applications Manual for Maxi, Mini, Micro Family.

Applications

generation systems.

Parameter	Rating	Unit	Notes
+IN to –IN voltage	-0.5 to +155	V _{DC}	
PC to –IN voltage	-0.5 to +7.0	V _{DC}	
PR to –IN voltage	-0.5 to +7.0	V _{DC}	
SC to –OUT voltage	-0.5 to +1.5	V _{DC}	
–Sense to –OUT voltage	1.0	V _{DC}	
Isolation voltage IN to OUT	3000	V _{RMS}	Test voltage
IN to base	1500	V _{RMS}	Test voltage
OUT to base	500	V _{RMS}	Test voltage
Operating Temperature	-55 to +100	°C	M-Grade
Storage Temperature	-65 to +125	°C	M-Grade
Pin soldering temperature	500 [260]	°F [°C]	<5 sec; wave solder
The solucing temperature	750 [390]	°F [°C]	<7 sec; hand solder
Mounting torque	5 [0.57]	in·lbs [N·m]	6 each

Module Family Electrical Characteristics

Electrical characteristics apply over the full operating range of input voltage, output load (resistive) and baseplate temperature, unless otherwise specified. All temperatures refer to the operating temperature at the center of the baseplate.

Module Input Specifications

Parameter	Min	Тур	Max	Unit	Notes
Operating input voltage	43	72	110	V _{DC}	Per EN50155 and GBT-25119
Input surge withstand			150	V _{DC}	<100ms
Undervoltage turn-on		41.7	42.6	V _{DC}	
Undervoltage turn-off	35.2	36.5		V _{DC}	
Overvoltage turn-off/on	111	115.5	121	V _{DC}	
Disabled input current			1.5	mA	PC pin low

Module Output Specifications

Parameter	Min	Тур	Max	Unit	Notes	
Output voltage set point			±1	%	Of nominal ou	tput voltage. Nominal input; full load; 25°C
Line regulation		±0.02	±0.20	%	Low line to hig	jh line; full load
Temperature regulation		±0.002	±0.005	% / °C	Over operating	g temperature range
Power sharing accuracy		±2	±5	%	10 – 100% of	full load
Programming range	10		110	%	of nominal, a r	tput voltage. For trimming below 90% minimum load of 10% of maximum nay be required.
+OUT to -OUT — Absolute M	<u>aximum Ratings</u>			05+-47)/ Eutemeell	
3.3V 5V				-0.5 to 4.7 -0.5 to 7.0		y applied y applied
8V				-0.5 to 10.9		y applied
12V				-0.5 to 16.1		y applied
15V				–0.5 to 20.0	V _{DC} External	y applied
24V				–0.5 to 31.7	V _{DC} External	y applied
28V				–0.5 to 36.9	V _{DC} External	y applied
36V				–0.5 to 47.1	V _{DC} External	y applied
48V				-0.5 to 62.9	V _{DC} External	y applied

Note: The permissible load current must never be exceeded during normal, abnormal or test conditions. For additional output related application information, please refer to output connections on page 7.

Thermal Resistance and Capacity

Parameter	Min	Тур	Мах	Unit	
Baseplate to sink; flat, greased surface		0.24		°C/Watt	
Baseplate to sink; thermal pad (P/N 20265)		0.21		°C/Watt	
Baseplate to ambient		10.9		°C/Watt	
Baseplate to ambient; 1000LFM		2.8		°C/Watt	
Thermal capacity		48		Watt-sec/°C	



Module Family Electrical Characteristics (Cont.)

Electrical characteristics apply over the full operating range of input voltage, output load (resistive) and baseplate temperature, unless otherwise specified. All temperatures refer to the operating temperature at the center of the baseplate.

Module Control Specifications

Parameter	Min	Тур	Max	Unit	Notes
Primary Side (PC = Primary Co	ontrol; PR = Paralle	l)			
PC bias voltage	5.50	5.75	6.00	V _{DC}	PC current = 1.0mA
current limit	1.5	2.1	3.0	mA	PC voltage = 5.5V
PC module disable	2.3	2.6	2.9	V _{DC}	Switch must be able to sink \geq 4mA. See Figure 2
PC module enable delay		4	7	ms	
PC module alarm			0.5	V _{AVG}	UV, OV, OT, module fault. See Figures 3 and 5
PC resistance	0.9	1.0	1.1	MΩ	See Figure 3, converter off or fault mode
PR emitter amplitude	5.7	5.9	6.1	Volts	PR load >30Ω, <30pF
PR emitter current	150			mA	
PR receiver impedance	375	500	625	Ω	25°C
PR receiver threshold	2.4	2.5	2.6	Volts	Minimum pulse width: 20ns
PR drive capability			12	modules	Without PR buffer amplifier
Secondary Side (SC = Seconda	ary Control)				
SC bandgap voltage	1.21	1.23	1.25	V _{DC}	Referenced to –Sense
SC resistance	990	1000	1010	Ω	
SC capacitance		0.033		μF	
SC module alarm		0		V _{DC}	With open trim; referenced to –Sense. See Figure 7

Module General Specifications

Parameter	Min	Тур	Max	Unit	Notes
Isolation test voltage (IN to OUT)*	3000			V _{RMS}	Complies with reinforced insulation requirements
Isolation test voltage (IN to base)*	1500			V _{RMS}	Complies with basic insulation requirements
Isolation test voltage (OUT to base)*	500			V _{rms}	Complies with operational insulation requirements
Isolation resistance		10		MΩ	IN to OUT, IN to baseplate, OUT to baseplate
Weight (E, C, T grade)	1.9 [52.8]	2.1 [59.3]	2.3 [65.8]	ounces [grams]	
Weight (H, M grade)	2.1 [58.7]	2.3 [65.2]	2.5 [71.7]	ounces [grams]	
Temperature limiting	100	115		°C	See Figures 3 and 5. Do not operate coverter >100°C.
Agency approvals	cl	URus, cTÜVus, C	E		UL60950-1, EN60950-1, CSA60950-1, IEC60950-1. With appropriate fuse in series with the +Input

* Isolation test voltage, 1 minute or less.

Note: Specifications are subject to change without notice.



Module-Specific Operating Specifications

3.3V_{оит}, 75W (e.g. S72C3V3C75BL, V72C3V3C75BL)

Parameter	Min	Тур	Max	Unit	Notes
Efficiency					
S72C3V3C75BL (enhanced efficiency)	82.5	85.3		%	Nominal input; 75% load; 25°C
V72C3V3C75BL (standard efficiency)	78.8	82.3			
Ripple and noise		105	132	mV	P-P; Nominal input; full load; 20MHz bandwidth
Output OVP set point	4.14	4.3	4.46	Volts	25°C; recycle input voltage or PC to restart (>100ms off)
Dissipation, standby		3.2	3.7	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Output Current	0		22.73	Amps	
Current limit	23.1	26.1	30.7	Amps	Output voltage 95% of nominal
Short circuit current	15.8	26.1	30.7	Amps	Output voltage <250mV

5V_{OUT}, 100W (e.g. S72C5C100BL, V72C5C100BL)

Parameter	Min	Тур	Max	Unit	Notes
Efficiency					
S72C5C100BL (enhanced efficiency)	84.4	86.1		%	Nominal input; 75% load; 25°C
V72C5C100BL (standard efficiency)	81.3	82.3			
Ripple and noise		120	150	mV	P-P; Nominal input; full load; 20MHz bandwidth
Output OVP set point	6.03	6.25	6.47	Volts	25°C; recycle input voltage or PC to restart (>100ms off)
Dissipation, standby		4.2	5	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Output Current	0		20	Amps	
Current limit	20.4	23	27	Amps	Output voltage 95% of nominal
Short circuit current	14	23	27	Amps	Output voltage <250mV

8V_{OUT}, 100W (e.g. V72C8C100BL)

Parameter	Min	Тур	Max	Unit	Notes
Efficiency	82.0	83.6		%	Nominal input; 75% load; 25°C
Ripple and noise		180	225	mV	P-P; Nominal input; full load; 20MHz bandwidth
Output OVP set point	9.36	9.7	10.1	Volts	25°C; recycle input voltage or PC to restart (>100ms off)
Dissipation, standby		6.3	7.5	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Output Current	0		12.5	Amps	
Current limit	12.7	14.4	16.9	Amps	Output voltage 95% of nominal
Short circuit current	8.75	14.4	16.9	Amps	Output voltage <250mV



Module-Specific Operating Specifications (Cont.)

12V_{OUT}, 150W (e.g. S72C12C150BL, V72C12C150BL)

Parameter	Min	Тур	Max	Unit	Notes
Efficiency					
S72C12C150BL (enhanced efficiency)	86.8	88.3		%	Nominal input; 75% load; 25°C
V24C12C50BL (standard efficiency)	86.5	87.5			
Ripple and noise		220	275	mV	P-P; Nominal input; full load; 20MHz bandwidth
Output OVP set point	13.7	14.3	14.9	Volts	25°C; recycle input voltage or PC to restart (>100ms off)
Dissipation, standby		4.3	5.3	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Output Current	0		12.5	Amps	
Current limit	12.7	14.4	17.5	Amps	Output voltage 95% of nominal
Short circuit current	8.75	14.4	17.5	Amps	Output voltage <250mV

15V_{OUT}, 150W (e.g. V72C15C150BL)

Parameter	Min	Тур	Max	Unit	Notes
Efficiency	84.2	85.9		%	Nominal input; 75% load; 25°C
Ripple and noise		150	188	mV	P-P; Nominal input; full load; 20MHz bandwidth
Output OVP set point	17.1	17.8	18.5	Volts	25°C; recycle input voltage or PC to restart (>100ms off)
Dissipation, standby		3.6	4.3	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Output Current	0		10	Amps	
Current limit	10.2	11.5	13.5	Amps	Output voltage 95% of nominal
Short circuit current	7	11.5	13.5	Amps	Output voltage <250mV

24V_{OUT}, 150W (e.g. V72C24C150BL)

Parameter	Min	Тур	Max	Unit	Notes
Efficiency	83.5	84.9		%	Nominal input; 75% load; 25°C
Ripple and noise		116	145	mV	P-P; Nominal input; full load; 20MHz bandwidth
Output OVP set point	27.1	28.1	29.1	Volts	25°C; recycle input voltage or PC to restart (>100ms off)
Dissipation, standby		6	7	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Output Current	0		6.25	Amps	
Current limit	6.37	7.19	8.44	Amps	Output voltage 95% of nominal
Short circuit current	4.37	7.19	8.98	Amps	Output voltage <250mV



Module-Specific Operating Specifications (Cont.)

28V_{OUT}, 150W (e.g. V72C28C150BL)

Parameter	Min	Тур	Max	Unit	Notes
Efficiency	85.3	86.2		%	Nominal input; 75% load; 25°C
Ripple and noise		105	132	mV	P-P; Nominal input; full load; 20MHz bandwidth
Output OVP set point	31.5	32.7	33.9	Volts	25°C; recycle input voltage or PC to restart (>100ms off)
Dissipation, standby		5.3	6.2	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Output Current	0		5.36	Amps	
Current limit	5.46	6.16	7.24	Amps	Output voltage 95% of nominal
Short circuit current	3.75	6.16	7.24	Amps	Output voltage <250mV

36V_{OUT}, 150W (e.g. V72C36C150BL)

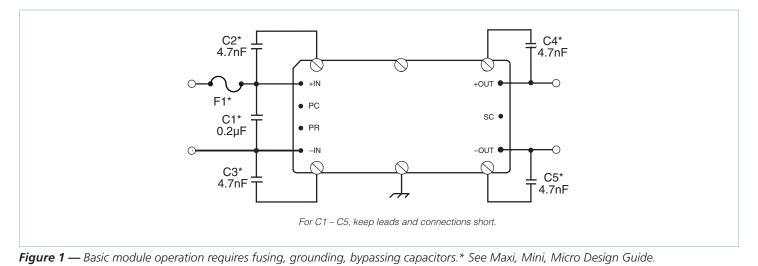
Parameter	Min	Тур	Max	Unit	Notes
Efficiency	85.2	87.9		%	Nominal input; 75% load; 25°C
Ripple and noise		72	90	mV	P-P; Nominal input; full load; 20MHz bandwidth
Output OVP set point	40.4	41.9	43.4	Volts	25°C; recycle input voltage or PC to restart (>100ms off)
Dissipation, standby		5	5.6	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Output Current	0		4.17	Amps	
Current limit	4.25	4.8	5.63	Amps	Output voltage 95% of nominal
Short circuit current	2.91	4.8	5.63	Amps	Output voltage <250mV

48V_{OUT}, 150W (e.g. V72C48C150BL)

Parameter	Min	Тур	Max	Unit	Notes
Efficiency	85.0	86.4		%	Nominal input; 75% load; 25°C
Ripple and noise		70	88	mV	P-P; Nominal input; full load; 20MHz bandwidth
Output OVP set point	53.7	55.7	57.7	Volts	25°C; recycle input voltage or PC to restart (>100ms off)
Dissipation, standby		6.0	6.8	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Output Current	0		3.13	Amps	
Current limit	3.19	3.6	4.23	Amps	Output voltage 95% of nominal
Short circuit current	2.19	3.6	4.23	Amps	Output voltage <250mV



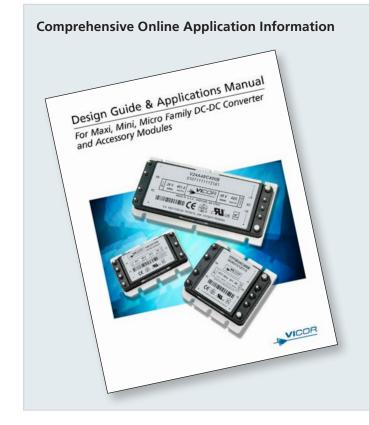
Basic Module Operation



Output Connections and Considerations

The permissible load current must never be exceeded during normal, abnormal or test conditions. Converters subject to dynamic loading exceeding 25% of rated current must be reviewed by Vicor Applications Engineering to ensure that the converter will operate properly.

Under dynamic-load, light-load or no-load conditions, the converter may emit audible noise. Converters that utilize remote sense may require compensation circuitry to offset the phase lag caused by the external output leads and load impedance. If an external remote-sense circuit is used, the remote-sense leads must be protected for conditions such as lead reversal, noise pickup, open circuit or excessive output lead resistance between the sense point and the converters output terminals. For applications that may draw more than the rated current, a fast-acting electronic circuit breaker must be utilized to protect the converter. Under no circumstance should the rated current be exceeded. Utilizing or testing of current limit or short circuit current will damage the converter. Ensure that the total output capacitance connected to the converter does not exceed the limits on Page 16, "Maximum Output Capacitance", of the design guide.



The Design Guide and Applications Manual includes:

- Application circuits
- Design requirements
- EMC considerations
- Current sharing in power arrays
- Thermal performance information
- Recommended soldering methods
- Accessory modules filtering, rectification, front-ends
- Mounting options
- ...and more.

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DESIGN GUIDE

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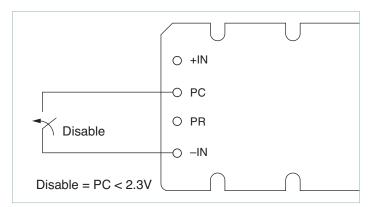
Primary Control – PC Pin

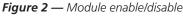
Module Enable/Disable

The module may be disabled by pulling PC to 0V (2.3V max) with respect to the –Input. This may be done with an open collector transistor, relay, or optocoupler. Converters may be disabled with a single transistor or relay either directly or via "OR'ing" diodes for two or more converters. See Figure 2.

Primary Auxiliary Supply

During normal operation only, the PC Pin can source 5.7V @ 1.5mA. In the example shown in Figure 4, PC powers a module enabled LED.





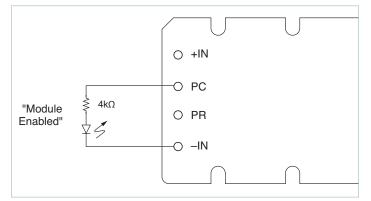


Figure 4 — LED on-state indicator

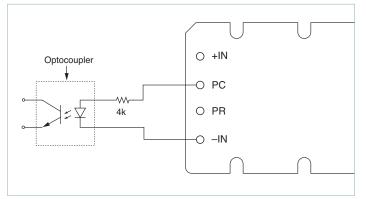


Figure 6 — Isolated on-state indicator

Module Alarm

The module contains "watchdog" circuitry which monitors input voltage, operating temperature and internal operating parameters. In the event that any of these parameters are outside of their allowable operating range, the module will shut down and PC will go low. PC will periodically go high and the module will check to see if the fault (as an example, Input Undervoltage) has cleared. If the fault has not been cleared, PC will go low again and the cycle will restart. The SC pin will go low in the event of a fault and return to its normal state after the fault has been cleared. See Figures 3 and 5.

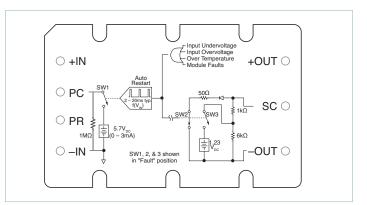


Figure 3 — PC/SC module alarm logic

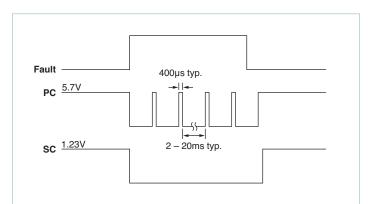


Figure 5 — PC/SC module alarm timing

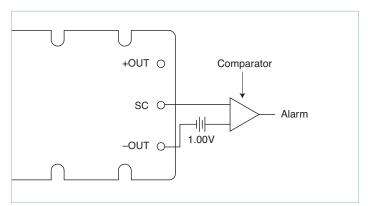


Figure 7 — Secondary-side on-state indicator



Secondary Control – SC Pin

Output Voltage Programming

The output voltage of the converter can be adjusted or programmed via fixed resistors, potentiometers or voltage DACs. See Figure 8.

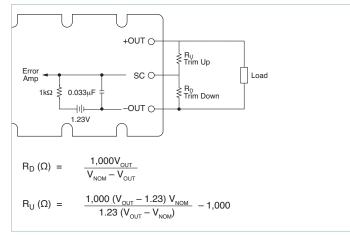


Figure 8 — Output voltage trim-down and trim-up circuit

Trim Down

- This converter is <u>not</u> a constant-power device it has a constant current limit. Hence, available output power is reduced by the same percentage that output voltage is trimmed down. Do not exceed maximum rated output current.
- 2. The trim-down resistor must be connected between the SC and –S pins. Do not bypass the SC pin directly with a capacitor.

Trim Up

- 1. The converter is rated for a maximum delivered power. To ensure that maximum rated power is not exceeded, reduce maximum output current by the same percentage increase in output voltage.
- 2. The trim-up resistor must be connected between the SC and +S pins. Do not bypass the SC pin directly with a capacitor.
- Do not trim the converter above maximum trim range (typically +10%) or the output over voltage protection circuitry may be activated.

Trim resistor values calculated automatically:

On-line calculators for trim resistor values are available on the vicor website at: <u>asp.vicorpower.com/calculators/calculators.asp?calc=1</u> Resistor values can be calculated for fixed trim up, fixed trim down and for variable trim up or down.

Parallel Bus – PR Pin

Parallel Operation

The PR pin supports paralleling for increased power with N+1 (N+M) redundancy. Modules of the same input voltage, output voltage, and power level will current share if all PR pins are suitably interfaced.

Compatible interface architectures include the following:

AC-coupled single-wire interface. All PR pins are connected to a single communication bus through 0.001μ F (500V) capacitors. This interface supports current sharing and is fault tolerant except for the communication bus. Up to three converters may be paralleled by this method. See Figure 9.

Transformer-coupled interface. For paralleling four or more converters a transformer-coupled interface is required, and under certain conditions a PR buffer circuit.

For details on parallel operation please refer to the Design Guide & Applications Manual for Maxi, Mini, Micro Family.

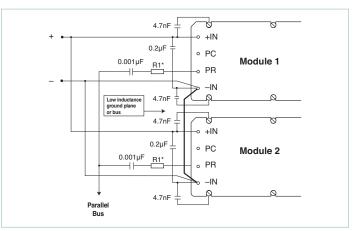


Figure 9 — AC-coupled single-wire interface * See Maxi, Mini, Micro Design Guide

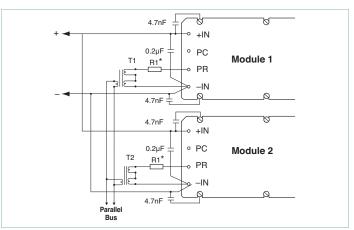


Figure 10 — Transformer-coupled interface

Number of Converters in Parallel	*R1 value Ω
2	75
3	50
4	33
5 or more	refer to application note: Designing High-Power Arrays using Maxi, Mini, Micro Family DC-DC Converters



Parallel Bus / Voltage-Drop Compensation

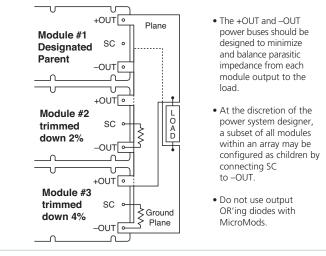
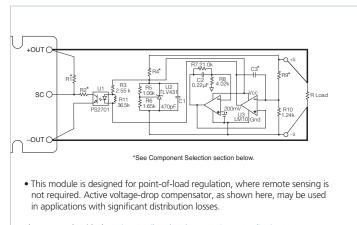


Figure 11 — N+1 module array output connections



Please consult with the <u>Micro Family Isolated Remote Sense Application Note</u> for additional information.

Figure 12 — Voltage-drop compensation

Pin Styles*

Designator	Description	Finish	Notes
(None)	Short	Tin/Lead	Requires inboard mounting
L	Long	Tin/Lead	Onboard mounting for 0.065in boards
S	Short ModuMate	Gold	SurfMate or inboard socket mounting
Ν	Long ModuMate	Gold	Onboard socket mounting
F	Short RoHS	Gold	Select for RoHS-compliant inboard solder, socket or SurfMate mounting
G	Long RoHS	Gold	Select for RoHS-compliant onboard solder or socket mounting
К	Extra Long RoHS	Gold	Select for RoHS compliance onboard mounting for thicker PCBs (not intended for socket or Surfmate mounting)

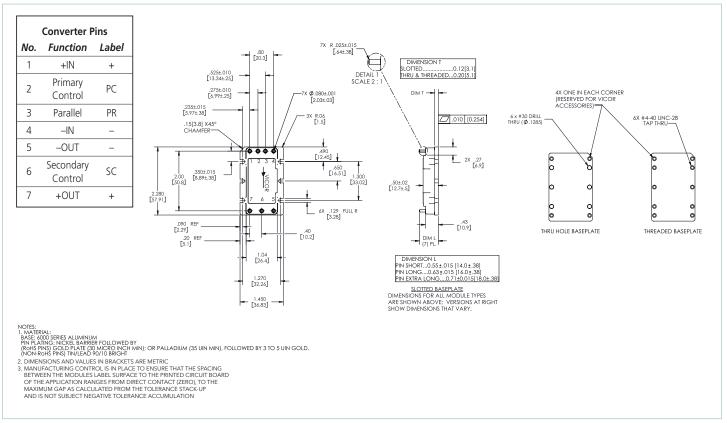
* Pin style designator follows the "B" after the output power and precedes the baseplate designator.
 Ex. V72C15T150BN2 — Long ModuMate Pins

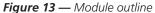
Storage

Vicor products, when not installed in customer units, should be stored in ESD safe packaging in accordance with ANSI/ESD S20.20, "Protection of Electrical and Electronic Parts, Assemblies and Equipment" and should be maintained in a temperature controlled factory/ warehouse environment not exposed to outside elements controlled between the temperature ranges of 15°C and 38°C. Humidity shall not be condensing, no minimum humidity when stored in an ESD compliant package.



Mechanical Drawings





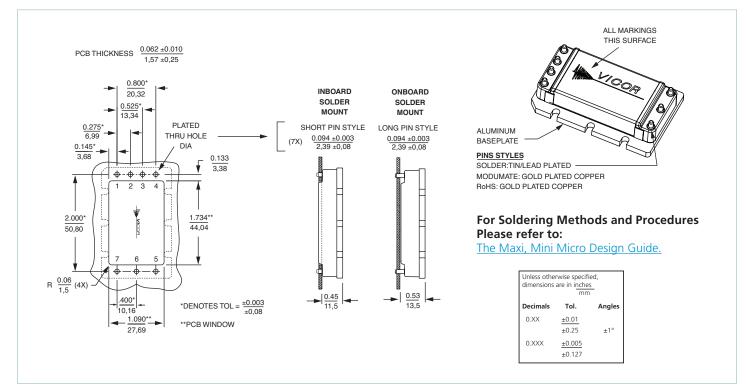


Figure 14 — PCB mounting specifications



Vicor's comprehensive line of power solutions includes high density AC-DC and DC-DC modules and accessory components, fully configurable AC-DC and DC-DC power supplies, and complete custom power systems.

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Rev 3.5 02/2021



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