

Evaluation Boards V•I Chip Products

V•I Chip BCM

Web ExpressCode: [bcmeb](#)

The BCM Evaluation Board has been designed to facilitate the verification of the V•I Chips superior performance in the areas of power density, efficiency (over a wide load range), fast response and quiet, low-noise operation. Adding the suffix "EB" to the BCM model number designates the Evaluation Board. For example the B048F120T30-EB specifies a 48 V to 12 V at 300 W BCM mounted to an Evaluation Board.



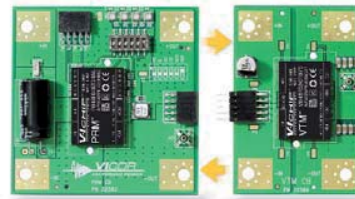
Example Number
B048F120T30-EB

RoHS

PRM & VTM

Web ExpressCode: [viceb](#)

The PRM and VTM Evaluation Boards allow the user to develop an understanding of Factorized Power Architecture (FPA™) using the PRM and VTM chip set. Simply select the PRM Evaluation Board to match your input voltage and VTM Evaluation Board to provide the desired output voltage and current and plug them together.



Example Number
P045F048T32AL-CB

Example Number
V048F040T050-CB

RoHS

High Voltage BCM

Web ExpressCode: [bcmpb](#)

The HV BCM Evaluation Board is used for powering, testing and evaluating the 380 Vdc input BCMs. The HV BCM Evaluation Board is available as a Parallel Array Board with a 12 Vdc, 100 A output or as a Series Array Board with a 48 Vdc 25 A and / or 12 Vdc, 25 A with up to 1,200 Watts total.



Parallel Array
Example Number
B384F120T30-PB

RoHS

PRM Constant Current Board

Web ExpressCode: [prmc](#)

The PRM Constant Current (CC) Demonstration Board is suitable for light-emitting diode (LED) applications such as street & stadium lighting, high-end projectors, active outdoor advertising and architectural installations. The board provides a precisely regulated current as required for direct drive multi-LED applications where the intensity and brightness are controlled by regulating the current through the LEDs.



Example Number
P048F048T24AL-CC

RoHS

Evaluation Boards DC-DC VI BRICK Products

VI BRICK

Web ExpressCode: [vibeb](#)

VI BRICK evaluation boards are available to verify the performance and simplify testing of VI BRICK modules. There are separate boards for the VI BRICK – PRM, VTM, BCM, and DC-DC converters.

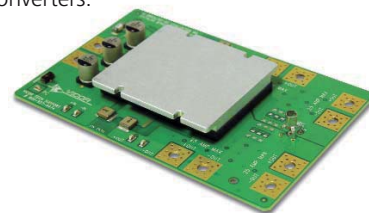
RoHS

Description

- VI BRICK PRM evaluation board
- VI BRICK VTM evaluation board
- VI BRICK BCM evaluation board
- VI BRICK DC-DC evaluation board

Part Number

Add "-CB" suffix to the
VI BRICK specific part #



Evaluation Boards DC-DC Brick / EMI Filters / Output Filters & Cool-ORing Products

Web ExpressCode: [mmmeb](#)

Maxi, Mini & Micro

- Three styles: Maxi, Mini or Micro
- Inboard and onboard compatible
- Easy I/O and control connections
- Includes fusing and capacitors
- Can be paralleled for higher power arrays

Description	Part Number
Maxi board style	24644R
Mini board style	24645R
Micro board style	24646R



RoHS

QPI Active EMI Filters & V•I Chip Optimized Filters

Web ExpressCode: [qpieb](#) [qpoeb](#)

The QPI / QPO filter evaluation boards provide a quick and easy way to evaluate the EMI / EMC performance of the filters with a broad range of DC-DC converters. Available QPI input EMI filter boards include: boards compatible with V•I Chip evaluation boards, DOSA pin-out compatible evaluation boards, and universal style use "EVAL1" evaluation boards. QPO output ripple attenuator boards are available in a universal "EVAL1" configuration or with sockets compatible with Vicor Mini and Micro DC-DC converters.

Part Number Description

- QPI-3-CB1^[a]QPI-3LZ for 24 V input DC-DC up to 7 A
- QPI-4-CB1^[a]QPI-4LZ for 48 V input DC-DC up to 7 A
- QPI-5-CB1^[a]QPI-5LZ for 24 V input DC-DC up to 14 A
- QPI-6-CB1^[a]QPI-6LZ for 48 V input DC-DC up to 14 A
- QPI-7-CB1^[a]QPI-7LZ for 24 V input DC-DC up to 6 A, *w/ integrated Hot-Swap*
- QPI-8-CB1^[a]QPI-8LZ for 48 V input DC-DC up to 6 A, *w/ integrated Hot-Swap*

^[a] The part numbers above are compatible with mounting DOSA compliant DC-DC converters. For universal plug in evaluation boards substitute CB1 with EVAL1.

QPI V•I Chip Optimized Filter Evaluation Boards

- QPI-9-CB1QPI-9LZ for 24 V input V•I Chips up to 6 A, *w/ integrated Hot-Swap*
- QPI-10-CB1QPI-10LZ for 48 V input V•I Chips up to 6 A, *w/ integrated Hot-Swap*
- QPI-11-CB1QPI-11LZ for 24 V input V•I Chips up to 7 A
- QPI-12-CB1QPI-12LZ for 48 V input V•I Chips up to 7 A

MQPI MIL COTS V•I Chip Optimized Filter Evaluation Board

- MQPI-18-CB1.....MQPI-18LP for 28 V input V•I Chips up to 7 A



QPO Active Output Filters

Part Number Description

- QPO-1-EVAL1....QPO-1LZ, 3 – 30 V input up to 10 A
- QPO-1-EVAL3....QPO-1LZ, board with sockets for Vicor Mini DC-DC converter
- QPO-1-EVAL5....QPO-1LZ, board with sockets for Vicor Micro DC-DC converter
- QPO-2-EVAL1....QPO-2LZ, 0.5 – 5.5 V input up to 20 A



Web ExpressCode: [coreb](#)

Cool-ORing Discrete & Full-Function Active ORing Solutions

The Cool-ORing evaluation boards offer a quick and easy way for the user to complete functional testing of Picor's Cool-ORing solutions. These evaluation boards demonstrate solutions satisfying a range of Active ORing requirements, covering several typical redundant bus voltages. The user can chose to evaluate a discrete implementation or a high density integrated solution depending on system level requirements. The user can use the evaluation board to measure steady state efficiency as well as test dynamic performance of the Cool-ORing product under system level fault conditions.

Part Number Description

- PI2001-EVAL1 PI2001 using 3 x 3 mm TDFN package & SO-8 MOSFET in high-side configuration
- PI2002-EVAL1 PI2002 using 3 x 3mm TDFN package and back-to-back SO-8 MOSFETs in high-side configuration
- PI2003-EVAL1 PI2003 using 3 x 3 mm TDFN package and 100V SO-8 MOSFET in low-side configuration
- PI2121-EVAL1 PI2121 configured for a high-side ground referenced application
- PI2122-EVAL1 PI2122 Active ORing with load disconnect
- PI2125-EVAL2 PI2125 configured for a high-side floating application

NOTE: Both PI2121-EVAL1 and PI2125-EVAL2 are compatible with the PI2123 solution.

