MIL-COTS M-FIAM™ Filter Input Attenuator Module

Specifications

Input Voltages	24 / 28 V 270 / 300 V
Output Current	Up to 25 A
Transient Compliance	MIL-STD-704 MIL-STD-1275 DO-160
Dimensions	*M-FIAM :* 2.28 x 2.20 x 0.50 in 57.9 x 55.9 x 12.7 mm *MVA-FIAM :* 4.69 x 3.62 x 0.81 in 119.4 x 92.0 x 20.6 mm

Find

Compatible Converters

The MILCOTS M-FIAM – Filter Input Attenuator Module – works in conjunction with a specific set of Vicor converters to deliver optimal efficiency, power and protection.

To easily view the appropriate converter components needed for the desired MILCOTS M-FIAM please use the PowerBench Solution Selector tool to locate compatible offerings.

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Description

The M-FIAM is a DC front-end module that provides EMI filtering and transient protection. The M-FIAM line of products enables designers using Vicor's 24, 28 or 300 V_{IN} Maxi, Mini, Micro DC-DC converters or 28 V_{IN} MILCOTS VI Chip modules to meet conducted emission/conducted susceptibility per MIL-STD-461E and input transient surges per MIL-STD-704 or MIL-STD-1275. In addition, the MVA-FIAM5B and MVA-FIAM9 offers designers using the M-FIAM5B or M-FIAM9 the capability of coldplate mounting with convenient input and output connectors.

Features & Benefits | Diagram | Documentation | Packaging Options | Related Products

Part Number	Input Voltage (V)	Output Current (A)	Transient Compliance	Module Compatibility	Dimensions
M-FIAM3	180 – 375	3	MIL-STD-704E/F	300 Vin Maxi, Mini, Micro	2.28" x 2.2" x 0.5" 57.9 x 55.9 x 12.7 mm
M-FIAM5B	14 – 36	20	MIL-STD-704E/F	24/28 Vin Maxi, Mini, Micro	2.28" x 2.2" x 0.5" 57.9 x 55.9 x 12.7 mm
M-FIAM7	14 – 50	10	MIL-STD-704A-F MIL-STD-1275A/B/D, DO-160E	28 Vin MIL-COTS VI Chips	2.28" x 2.2" x 0.5" 57.9 x 55.9 x 12.7 mm
M-FIAM7B	14 – 50	25	MIL-STD-704A-F MIL-STD-1275A/B/D, DO-160E	28 Vin MIL-COTS VI Chips	2.28" x 2.2" x 0.5" 57.9 x 55.9 x 12.7 mm
M-FIAM9	10 – 36	18	MIL-STD-704A-F MIL-STD-1275A/B/D	24/28 Vin Maxi, Mini, Micro	2.28" x 2.2" x 0.5" 57.9 x 55.9 x 12.7 mm
MVA-FIAM5B	14 – 36	20	MIL-STD-704E/F	24/28 Vin Maxi, Mini, Micro	4.69" x 3.62" x 0.81" 119.4 x 92.0 x 20.6 mm
MVA-FIAM9	10 – 36	18	MIL-STD-704A-F MIL-STD-1275A/B/D	24/28 Vin Maxi, Mini, Micro	4.69" x 3.62" x 0.81" 119.4 x 92.0 x 20.6 mm

1 7 products Reset filters

Features & Benefits

- Various transient compliance
- MIL-STD-461 EMI compliance
- Inrush current limiting
- Low profile mounting option

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Diagram

The FIAM family of front-end modules provides EMI filtering, transient protection, and inrush current limiting in DC-DC applications. The FIAM enables designer using Vicor Maxi, Mini, and Micro DC-DC converters, and in select cases V•I Chip based devices, to meet the transient immunity and EMI requirements of the standards referenced in the respective model datasheet.

Click image to enlarge.

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Documentation

Data Sheets

- PDF M-FIAM3 Data Sheet »
- PDF M-FIAM5B Data Sheet »
- PDF M-FIAM7 Data Sheet »
- PDF M-FIAM7B Data Sheet »
- PDF M-FIAM9 Data Sheet »
- PDF MVA-FIAM5B Data Sheet »
- PDF MVA-FIAM9 Data Sheet »

Application Note

- PDF FIAM Application Note »

Design Guide / Application Manual

Download Entire Manual

- PDF Maxi, Mini, Micro Design Guide and Applications Manual

Download Individual Chapters

- PDF 1. High-Density DC-DC Converter Technology »
- PDF 2. Control Pin Functions and Applications »
- PDF 3. Design Requirements »
- PDF 4. EMC Considerations »
- PDF 5. Current Sharing in Power Arrays »
- PDF 6. Thermal Performance Information »

Accessory Modules

- PDF 7. Autoranging Rectifier Module (ARM) »
- PDF 8. Filter / Autoranging Rectifier Module (FARM) »
- PDF 9. Modular AC Front-end System (ENMod) »
- PDF 10. High Boost HAM »
- PDF 11. Filter Input Attenuator Module (FIAM) »
- PDF 12. Output Ripple Attenuator Module (MicroRAM) »

Recommended Soldering Methods

- PDF 13. Lead Free Pins (RoHS) »
- PDF 14. Tin Lead Pins »

Mounting Options

- PDF 15. Surface Mount Socketing System (SurfMate) »
- PDF 16. Through-hole Socket-mount System (InMate) »
- PDF 17. Glossary of Technical Terms »

Safety Approvals

- PDF M-FIAM3 – CE Marked – Low Voltage Directive (2006/95/EC) and RoHS Recast Directive (2011/65/EU) »
- PDF M-FIAM5B – CE Marked – Low Voltage Directive (2006/95/EC) and RoHS Recast Directive (2011/65/EU) »
- PDF M-FIAM7 – CE Marked – Low Voltage Directive (2006/95/EC) and RoHS Recast Directive (2011/65/EU) »
- PDF M-FIAM7B – CE Marked – Low Voltage Directive (2006/95/EC) and RoHS Recast Directive (2011/65/EU) »
- PDF M-FIAM9 – CE Marked – Low Voltage Directive (2006/95/EC) and RoHS Recast Directive (2011/65/EU) »

MI Series Stress Screening

- PDF MIL-STD-810 Environments »

Packaging Options

Drawing Number	Description	
25005	PDF	Outline Drawing for FIAM Module »
25006	DXF	Outline Drawing for FIAM Module »
25335	PDF	Outline Drawing for MVA-FIAM9 »
25335	DXF	Outline Drawing for MVA-FIAM9 »

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Related Products

DC-DC Converters

VI-200, VI-J00 Family — Go >

Maxi, Mini, Micro Family — Go >

Accessories

Capacitors

X-Cap (Capacitance)	Part Number	Vendor Part Number	Voltage Rating	Technical Drawing	
0.22 µF	04068	F1772-422-2000	250 Vac	PDF	Add to Cart >

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Y-Cap (Capacitance)	Part Number	Vendor Part Number	Voltage Rating	Technical Drawing	
0.01 µF	33643	F1710-310-1000	250 V	PDF	Add to Cart >

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Y-Cap Surface Mount (Capacitance)	Part Number	Vendor Part Number	RoHS Compliant	Voltage Rating	Technical Drawing	
4,700 pF	25283	P101AA472M250V	Yes	250 Vac	PDF	Add to Cart >

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MOVs

Description	Part Number	Vendor Part Number	Voltage Rating	Technical Drawing	
10 mm Disc	30234-120	ERZV10D121	120 V	PDF	Add to Cart >
Transorb, SMC	19180-510	1.5SMC51AT3G	51 V	PDF	Add to Cart >

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EMI Shielding

Mini-size Shield	Part Number	Module Style	Technical Drawing	
For Slotted Baseplate	30198	Mini	PDF DXF	Add to Cart >
For Threaded or Through hole Baseplate	30180	Mini	PDF DXF	Add to Cart >

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Fuses

Fuse (Current Rating)	Part Number	Vendor Part Number	Voltage Rating	Technical Drawing	
10 A	30247	BK1/MCRW10A	125 V	PDF	Add to Cart >

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LugMates

LugMates listed in the table below are for use with Vicor Mini-size modules.
These heat sinks are NOT for use with Vicor V1-X00-size modules.

Description	Part Number	Module Style	Technical Drawing	
For use with Mini-size modules	23466	Mini	PDF	Add to Cart >

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Sockets

JPG Example SurfMate Application »

SurfMate Sockets	Part Number	Mounting Style	Module Style	Pin Style	Board Thickness	Assembly Drawing	Technical Drawing	
Set (5) Input, (5) Output	16021	Surface	Mini	Short RoHS (Gold)	All	PDF DXF	PDF DXF	Add to Cart >
Input Only (35) Pieces	22100	Surface	Mini	Short RoHS (Gold)	All			>
Output Only (35) Pieces	22102	Surface	Mini	Short RoHS (Gold)	All			Add to Cart >

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For InMate headers, all sockets are supplied to assure proper alignment during installation.

JPG Example Inboard Mounting »
JPG Example Onboard Mounting »

InMate Sockets	Part Number	Mounting Style	Module Style	Pin Style	Board Thickness (Nominal)	Board Thickness (Min/Max)	Technical Drawing	
Set (5) Input, (5) Output	18366	Inboard	Mini	Short RoHS (Gold)	0.063"	0.055" / 0.071"	PDF DXF	Add to Cart >
Input Only (35) Pieces	18374	Inboard	Mini	Short RoHS (Gold)	0.063"	0.055" / 0.071"		Add to Cart >
Output Only (35) Pieces	18384	Inboard	Mini	Short RoHS (Gold)	0.063"	0.055" / 0.071"		Add to Cart >
Set (5) Input, (5) Output	18368	Onboard	Mini	Long RoHS (Gold)	0.063"	0.055" / 0.071"	PDF DXF	Add to Cart >
Input Only (35) Pieces	18378	Onboard	Mini	Long RoHS (Gold)	0.063"	0.055" / 0.071"		Add to Cart >
Output Only (35) Pieces	18390	Onboard	Mini	Long RoHS (Gold)	0.063"	0.055" / 0.071"		Add to Cart >
Set (5) Input, (5) Output	18367	Inboard	Mini	Short RoHS (Gold)	0.094"	0.084" / 0.104"	PDF DXF	Add to Cart >
Input Only (35) Pieces	18375	Inboard	Mini	Short RoHS (Gold)	0.094"	0.084" / 0.104"		Add to Cart >
Output Only (35) Pieces	18385	Inboard	Mini	Short RoHS (Gold)	0.094"	0.084" / 0.104"		Add to Cart >
Set (5) Input, (5) Output	18369	Onboard	Mini	Long RoHS (Gold)	0.094"	0.084" / 0.104"	PDF DXF	Add to Cart >
Input Only (35) Pieces	18379	Onboard	Mini	Long RoHS (Gold)	0.094"	0.084" / 0.104"		Add to Cart >
Output Only (35) Pieces	18391	Onboard	Mini	Long RoHS (Gold)	0.094"	0.084" / 0.104"		Add to Cart >
Set (5) Input, (5) Output	21511	Onboard	Mini	Long RoHS (Gold)	0.125"	0.1125" / 0.1375"	PDF DXF	Add to Cart >
Input Only (35) Pieces	21539	Onboard	Mini	Long RoHS (Gold)	0.125"	0.1125" / 0.1375"		Add to Cart >
Output Only (35) Pieces	21544	Onboard	Mini	Long RoHS (Gold)	0.125"	0.1125" / 0.1375"		Add to Cart >

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Socket Extraction Tool

Module Exchange Tool	Part Number	Module Style	Technical Drawing	
Used to facilitate the proper extraction of Mini modules from InMate or SurfMate sockets	22828	Mini	–	Add to Cart >

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Standoffs

Mini and Micro modules require a minimum of four Standoffs
Bags of (100) Standoffs do not include screws, #4-40 thread hardware required

PDF Solder Mounting Design Information »

Standoffs for Solder Mounted Modules	Part Number	Mounting Style	Baseplate Style	Heat Sink	Pin Style	Board Thickness	Technical Drawing	
Kit (6) Standoffs (6) Screws	18150	Inboard	Slotted	Through hole	Short (Tin/Lead), or Short RoHS (Gold)	0.063"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19126	Inboard	Slotted	Through hole	Short (Tin/Lead), or Short RoHS (Gold)	0.063"		Add to Cart >
Kit (6) Standoffs (6) Screws	18151	Inboard	Slotted	Threaded	Short (Tin/Lead), or Short RoHS (Gold)	0.063"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19127	Inboard	Slotted	Threaded	Short (Tin/Lead), or Short RoHS (Gold)	0.063"		Add to Cart >
Kit (6) Standoffs (6) Screws	18146	Inboard	Through hole	Through hole	Short (Tin/Lead), or Short RoHS (Gold)	0.063"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19122	Inboard	Through hole	Through hole	Short (Tin/Lead), or Short RoHS (Gold)	0.063"		Add to Cart >
Kit (6) Standoffs (6) Screws	18147	Inboard	Through hole	Threaded	Short (Tin/Lead), or Short RoHS (Gold)	0.063"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19123	Inboard	Through hole	Threaded	Short (Tin/Lead), or Short RoHS (Gold)	0.063"		Add to Cart >
Kit (6) Standoffs (6) Screws	18146	Inboard	Threaded	Through hole	Short (Tin/Lead), or Short RoHS (Gold)	0.063"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19122	Inboard	Threaded	Through hole	Short (Tin/Lead), or Short RoHS (Gold)	0.063"		Add to Cart >
Kit (6) Standoffs (6) Screws	18156	Onboard	Slotted	Through hole	Long (Tin/Lead), or Long RoHS (Gold)	0.063"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19132	Onboard	Slotted	Through hole	Long (Tin/Lead), or Long RoHS (Gold)	0.063"		Add to Cart >
Kit (6) Standoffs (6) Screws	18157	Onboard	Slotted	Threaded	Long (Tin/Lead), or Long RoHS (Gold)	0.063"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19133	Onboard	Slotted	Threaded	Long (Tin/Lead), or Long RoHS (Gold)	0.063"		Add to Cart >
Kit (6) Standoffs (6) Screws	18150	Onboard	Through hole	Through hole	Long (Tin/Lead), or Long RoHS (Gold)	0.063"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19126	Onboard	Through hole	Through hole	Long (Tin/Lead), or Long RoHS (Gold)	0.063"		Add to Cart >
Kit (6) Standoffs (6) Screws	18152	Onboard	Through hole	Threaded	Long (Tin/Lead), or Long RoHS (Gold)	0.063"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19128	Onboard	Through hole	Threaded	Long (Tin/Lead), or Long RoHS (Gold)	0.063"		Add to Cart >
Kit (6) Standoffs (6) Screws	18150	Onboard	Threaded	Through hole	Long (Tin/Lead), or Long RoHS (Gold)	0.063"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19126	Onboard	Threaded	Through hole	Long (Tin/Lead), or Long RoHS (Gold)	0.063"		Add to Cart >
Kit (6) Standoffs (6) Screws	18150	Inboard	Slotted	Through hole	Long (Tin/Lead), or Long RoHS (Gold)	0.093"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19126	Inboard	Slotted	Through hole	Long (Tin/Lead), or Long RoHS (Gold)	0.093"		Add to Cart >
Kit (6) Standoffs (6) Screws	18151	Inboard	Slotted	Threaded	Long (Tin/Lead), or Long RoHS (Gold)	0.093"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19127	Inboard	Slotted	Threaded	Long (Tin/Lead), or Long RoHS (Gold)	0.093"		Add to Cart >
Kit (6) Standoffs (6) Screws	18146	Inboard	Through hole	Through hole	Long (Tin/Lead), or Long RoHS (Gold)	0.093"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19122	Inboard	Through hole	Through hole	Long (Tin/Lead), or Long RoHS (Gold)	0.093"		Add to Cart >
Kit (6) Standoffs (6) Screws	18147	Inboard	Through hole	Threaded	Long (Tin/Lead), or Long RoHS (Gold)	0.093"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19123	Inboard	Through hole	Threaded	Long (Tin/Lead), or Long RoHS (Gold)	0.093"		Add to Cart >
Kit (6) Standoffs (6) Screws	18146	Inboard	Threaded	Through hole	Long (Tin/Lead), or Long RoHS (Gold)	0.093"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19122	Inboard	Threaded	Through hole	Long (Tin/Lead), or Long RoHS (Gold)	0.093"		Add to Cart >

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Mini and Micro modules require a minimum of four Standoffs
Bags of (100) Standoffs do not include screws, #4-40 thread hardware required

PDF InMate Mounting Design Information »

Standoffs for InMate Mounted Modules	Part Number	Mounting Style	Baseplate Style	Heat Sink	Pin Style	Board Thickness	Technical Drawing	
Kit (6) Standoffs (6) Screws	18153	Inboard	Slotted	Through hole	Short ModulMate (Gold)	0.063"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19129	Inboard	Slotted	Through hole	Short ModulMate (Gold)	0.063"		Add to Cart >
Kit (6) Standoffs (6) Screws	18154	Inboard	Slotted	Threaded	Short ModulMate (Gold)	0.063"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19130	Inboard	Slotted	Threaded	Short ModulMate (Gold)	0.063"		Add to Cart >
Kit (6) Standoffs (6) Screws	18148	Inboard	Through hole	Through hole	Short ModulMate (Gold)	0.063"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19124	Inboard	Through hole	Through hole	Short ModulMate (Gold)	0.063"		Add to Cart >
Kit (6) Standoffs (6) Screws	18149	Inboard	Through hole	Threaded	Short ModulMate (Gold)	0.063"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19125	Inboard	Through hole	Threaded	Short ModulMate (Gold)	0.063"		Add to Cart >
Kit (6) Standoffs (6) Screws	18148	Inboard	Threaded	Through hole	Short ModulMate (Gold)	0.063"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19124	Inboard	Threaded	Through hole	Short ModulMate (Gold)	0.063"		Add to Cart >
Kit (6) Standoffs (6) Screws	18158	Onboard	Slotted	Through hole	Long ModulMate (Gold)	0.063"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19134	Onboard	Slotted	Through hole	Long ModulMate (Gold)	0.063"		Add to Cart >
Kit (6) Standoffs (6) Screws	18159	Onboard	Slotted	Threaded	Long ModulMate (Gold)	0.063"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19135	Onboard	Slotted	Threaded	Long ModulMate (Gold)	0.063"		Add to Cart >
Kit (6) Standoffs (6) Screws	18153	Onboard	Through hole	Through hole	Long ModulMate (Gold)	0.063"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19129	Onboard	Through hole	Through hole	Long ModulMate (Gold)	0.063"		Add to Cart >
Kit (6) Standoffs (6) Screws	18155	Onboard	Through hole	Threaded	Long ModulMate (Gold)	0.063"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19131	Onboard	Through hole	Threaded	Long ModulMate (Gold)	0.063"		Add to Cart >
Kit (6) Standoffs (6) Screws	18153	Onboard	Threaded	Through hole	Long ModulMate (Gold)	0.063"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19129	Onboard	Threaded	Through hole	Long ModulMate (Gold)	0.063"		Add to Cart >
Kit (6) Standoffs (6) Screws	18153	Inboard	Slotted	Through hole	Short ModulMate (Gold)	0.093"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19129	Inboard	Slotted	Through hole	Short ModulMate (Gold)	0.093"		Add to Cart >
Kit (6) Standoffs (6) Screws	18154	Inboard	Slotted	Threaded	Short ModulMate (Gold)	0.093"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19130	Inboard	Slotted	Threaded	Short ModulMate (Gold)	0.093"		Add to Cart >
Kit (6) Standoffs (6) Screws	18148	Inboard	Through hole	Through hole	Short ModulMate (Gold)	0.093"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19124	Inboard	Through hole	Through hole	Short ModulMate (Gold)	0.093"		Add to Cart >
Kit (6) Standoffs (6) Screws	18149	Inboard	Through hole	Threaded	Short ModulMate (Gold)	0.093"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19125	Inboard	Through hole	Threaded	Short ModulMate (Gold)	0.093"		Add to Cart >
Kit (6) Standoffs (6) Screws	18148	Inboard	Threaded	Through hole	Short ModulMate (Gold)	0.093"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19124	Inboard	Threaded	Through hole	Short ModulMate (Gold)	0.093"		Add to Cart >
Kit (6) Standoffs (6) Screws	18156	Onboard	Slotted	Through hole	Long ModulMate (Gold)	0.093"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19132	Onboard	Slotted	Through hole	Long ModulMate (Gold)	0.093"		Add to Cart >
Kit (6) Standoffs (6) Screws	18157	Onboard	Slotted	Threaded	Long ModulMate (Gold)	0.093"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19133	Onboard	Slotted	Threaded	Long ModulMate (Gold)	0.093"		Add to Cart >
Kit (6) Standoffs (6) Screws	18150	Onboard	Through hole	Through hole	Long ModulMate (Gold)	0.093"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19126	Onboard	Through hole	Through hole	Long ModulMate (Gold)	0.093"		Add to Cart >
Kit (6) Standoffs (6) Screws	18152	Onboard	Through hole	Threaded	Long ModulMate (Gold)	0.093"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19128	Onboard	Through hole	Threaded	Long ModulMate (Gold)	0.093"		Add to Cart >
Kit (6) Standoffs (6) Screws	18150	Onboard	Threaded	Through hole	Long ModulMate (Gold)	0.093"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19126	Onboard	Threaded	Through hole	Long ModulMate (Gold)	0.093"		Add to Cart >
Kit (6) Standoffs (6) Screws	24054	Onboard	Slotted	Through hole	Long ModulMate (Gold)	0.125"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19132	Onboard	Slotted	Through hole	Long ModulMate (Gold)	0.125"		Add to Cart >
Kit (6) Standoffs (6) Screws	18157	Onboard	Slotted	Threaded	Long ModulMate (Gold)	0.125"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19133	Onboard	Slotted	Threaded	Long ModulMate (Gold)	0.125"		Add to Cart >
Kit (6) Standoffs (6) Screws	24056	Onboard	Through hole	Through hole	Long ModulMate (Gold)	0.125"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19126	Onboard	Through hole	Through hole	Long ModulMate (Gold)	0.125"		Add to Cart >
Kit (6) Standoffs (6) Screws	18152	Onboard	Through hole	Threaded	Long ModulMate (Gold)	0.125"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19128	Onboard	Through hole	Threaded	Long ModulMate (Gold)	0.125"		Add to Cart >
Kit (6) Standoffs (6) Screws	24056	Onboard	Threaded	Through hole	Long ModulMate (Gold)	0.125"	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	19126	Onboard	Threaded	Through hole	Long ModulMate (Gold)	0.125"		Add to Cart >

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Mini and Micro modules require a minimum of four Standoffs
Bags of (100) Standoffs do not include screws, #4-40 thread hardware required

PDF Surface Mounting Design Information »

Standoffs for SurfMate Mounted Modules	Part Number	Mounting Style	Baseplate Style	Heat Sink	Pin Style	Board Thickness	Technical Drawing	
Kit (6) Standoffs (6) Screws	20178	Surface	Slotted	Through hole	Short ModulMate (Gold)	All	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	20188	Surface	Slotted	Through hole	Short ModulMate (Gold)	All		Add to Cart >
Kit (6) Standoffs (6) Screws	20179	Surface	Slotted	Threaded	Short ModulMate (Gold)	All	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	20189	Surface	Slotted	Threaded	Short ModulMate (Gold)	All		Add to Cart >
Kit (6) Standoffs (6) Screws	20176	Surface	Through hole	Through hole	Short ModulMate (Gold)	All	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	20186	Surface	Through hole	Through hole	Short ModulMate (Gold)	All		Add to Cart >
Kit (6) Standoffs (6) Screws	20177	Surface	Through hole	Threaded	Short ModulMate (Gold)	All	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	20187	Surface	Through hole	Threaded	Short ModulMate (Gold)	All		Add to Cart >
Kit (6) Standoffs (6) Screws	20176	Surface	Threaded	Through hole	Short ModulMate (Gold)	All	PDF DXF	Add to Cart >
Bag (100) Standoffs (0) Screws	20186	Surface	Threaded	Through hole	Short ModulMate (Gold)	All		Add to Cart >

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Thermal Management

Heat Sinks listed in the table below are for use with Vicor Mini-size modules.
These heat sinks are NOT for use with Vicor V1-X00-size modules.

TOOL Heat Sink Thermal Data and Calculator »

Heat Sinks Longitudinal Fins	Part Number	Mounting Style		Technical Drawing	
0.40"	32188	Threaded	Mini	*Not for use with threaded baseplates*	PDF DXF	Add to Cart >
0.90"	30189	Threaded	Mini	*Not for use with threaded baseplates*	PDF DXF	Add to Cart >
0.40"	30195	Through hole	Mini		PDF DXF	Add to Cart >
0.90"	30182	Through hole	Mini		PDF DXF	Add to Cart >

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Heat Sinks listed in the table below are for use with Vicor Mini-size modules.
These heat sinks are NOT for use with Vicor V1-X00-size modules.

TOOL Heat Sink Thermal Data and Calculator »

Heat Sinks Transverse Fins	Part Number	Mounting Style	Module Style		Technical Drawing	
0.40"	30184	Threaded	Mini	*Not for use with threaded baseplates*	PDF DXF	Add to Cart >
0.90"	30269	Threaded	Mini	*Not for use with threaded baseplates*	PDF DXF	Add to Cart >
0.40"	30721	Through hole	Mini		PDF DXF	Add to Cart >
0.90"	30724	Through hole	Mini		PDF DXF	Add to Cart >

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Heat Sinks listed in the table below are for use with Vicor Mini-size modules.
These heat sinks are NOT for use with Vicor V1-X00-size modules.

TOOL Heat Sink Thermal Data and Calculator »

Heat Sinks Low-Profile Side-Fin	Part Number	Module Style	Height	Technical Drawing	
0.55"	32190	Mini	0.125" above module baseplate	PDF	Add to Cart >

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Thermal Pads listed in the table below are for use with Vicor Mini-size modules.
These Thermal Pads are NOT for use with V1-X00-size modules.

ThermMate Thermal Pads	Part Number	Module Style	Technical Drawing	
0.007"	20264	Mini	PDF DXF	Add to Cart >

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