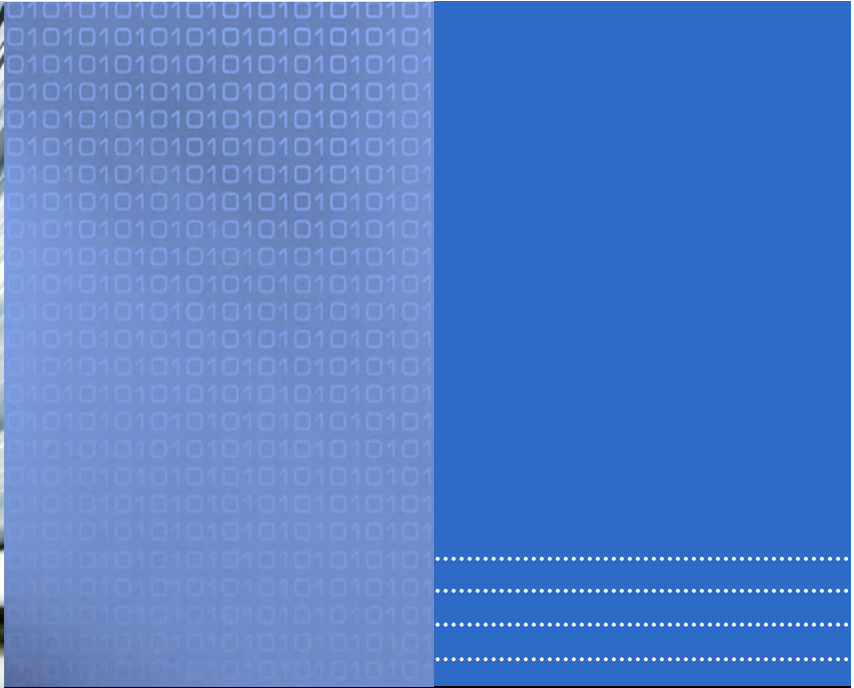




Product Catalog DC-DC Power Modules



March, 2017

Selection Table

Isolated DC-DC Modules

Input Range (V)	Package (brick)	Series Name	Output Voltage (V)	Output Current (A)	Output Power (W)	Page
40-60	1/8	EBE4	12	40	480	4
	1/4	QBE4	12	50-67	600-804	6
36 - 75	1/32	MRS4	3.3-12	3.0-10	25-40	8
	1/16	SRS4	1.0-28	2.5-35	30-100	10
	1/8	ERS4	1.0-48	3.0-80	30-144	13
	1/8	EBC4	3.3-28	10-60	175-280	16
	1/8	EBE4	12	30	360	19
	1/4	QPS4	1.0-48	2.0-100	70-240	21
	1/4	QBC4	5.0-12	28-70	300-720	24
	1/4	QBE4	12	42	504	26
	1/4	QDS4	12	33	396	28
	1/2	HPS4	5.0-48	10-80	360-504	30
	Full	FPS4	28-30	23.5-28	700-801	32
	1x1	LRS3-W	3.3-12	1.5-7	18-23.1	34
18 - 75	1/16	SRS3-W	3.3-15	3.0-20	32-72	36
	1/8	ERS3-W	3.3-32	3.0-30	45-140	39
	1/4	QPS3-W	3.3-48	2.0-60	96-228	42
	1/2	HPS3-W	12	30	360	45
	1/8	ERS3	3.3	35	116	47



Selection Table

Isolated DC-DC Modules

Input Range (V)	Package (brick)	Series Name	Output Voltage (V)	Output Current (A)	Output Power (W)	Page
18 - 36	1/32	MRS2	3.3-28	1.5-10	30-45	49
	1/16	SRS2	3.3-28	2.5-25	18-90	52
	1/16	SYRS2	3.3-28	2.5-25	36-90	55
	1/8	ERS2	3.3-28	2.0-35	50-140	59
	1/8	EYRS2	3.3-48	2.0-35	96-140	62
	1/4	QRS2	3.3-12	7.0-35	83-125	65
	1/4	QPS2	3.3-48	4.0-60	125-300	68
	1/4	QYPS2	3.3-48	4.0-60	192-210	71
	1/4	QBC2	5.0-12	25-50	250-360	74
	1/4	QYBC2	5.0-12	25-50	250-300	76
	1/2	HPS2	5.0-48	7.2-80	345.6-600	79
	1/2	HYPS2	8.0-48	7.0-80	325-600	82
9 - 75	1/16	SYRS5	5.0-12	2.0-6.0	24-30	85
	1/4	QYPS5	12-15	7.0-10	84-150	87
9 - 36	1/32	MYRS1	3.3-28	1.0-7.0	15-28	89
	1/16	SYRS1	3.3-15	2.0-15	30-60	92
	1/8	EYRS1	5-28	3-20	75-224	95
	1/4	QYPS1	3.3-56	2.0-40	99-200	98
	1/2	HYPS1	5.0-12	20-50	240-250	101



Selection Table

Non-Isolated DC-DC POL

Input Voltage (V)	Series Name	Output Voltage (V)	Output Current (A)	Package (POL)	Size	Page
2.5-5.5	NAT0	0.75-3.63	12-20	SIP	2.00x0.50x0.25	103
	NAS0	0.75-3.63	12-20	SMT	1.30x0.53x0.25	105
	NBS0	0.75-3.63	8	SMT	1.10x0.45x0.25	107
4.5-14	NKS1	0.59-5.5	6-12	SMT	0.48x0.48x0.35	109
7.0-14	NRT1	1.20-6.0	10	SIP	0.42x0.66x0.38	111
8.0-14	NHT1	0.50-1.6	100-120	SMT, SIP, Horizontal TH	2.05x1.10x0.64 2.70x1.20x0.64	113
8.0-16	NCT1	0.80-5.5	40-60	SIP, Horizontal TH	2.00x0.68x0.39	118
8.5-16	NBS1	0.75-5.5	8	SMT	1.10x0.45x0.25	121
8.5-18	NAT1	0.75-5.5	12-20	SIP	2.00x0.50x0.25	123
	NAS1	0.75-5.5	12-20	SMT	1.30x0.53x0.25	125
	NES1	0.75-5.5	16-30	SMT	1.30x0.53x0.38	127
9-36	NAT2	3.0-6.0	10	SIP	2.00x0.50x0.25	129
	NAS2	3.0-6.0	10	SMT	1.30x0.53x0.25	131
	NBS2	3.0-6.0	3.5	SMT	1.10x0.45x0.25	133
18-36	NAT3	5.0-15.5	9	SIP	2.00x0.50x0.25	135
	NAS3	5.0-15.5	9	SMT	1.30x0.53x0.25	137
	NBS3	5.0-15.5	3.5	SMT	1.10x0.45x0.25	139



EBE4 Eighth Brick Series

Part Numbering System

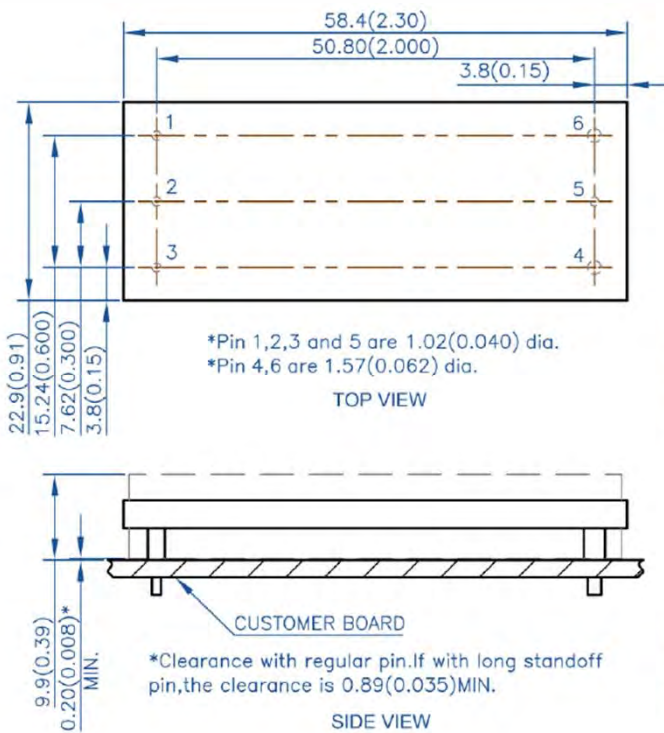
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
EBE	4	□□□	□	□□□	□	□	□	
	4: 40-60V	Unit: 0.1V Example: 120: 12V	P: Positive N: Negative	Unit: A Example: 040:40A	Regular K: 0.110" N: 0.145" R: 0.180" Long standoff: E: 0.110" G: 0.145" U: 0.180" L: 0.210"	5: latch off 6: parallel and latch-off 7: auto-restart 8: trim & latch off 9: trim & auto-restart A: parallel and auto-restart	6: Baseplate	alphanumeric symbol: Special code



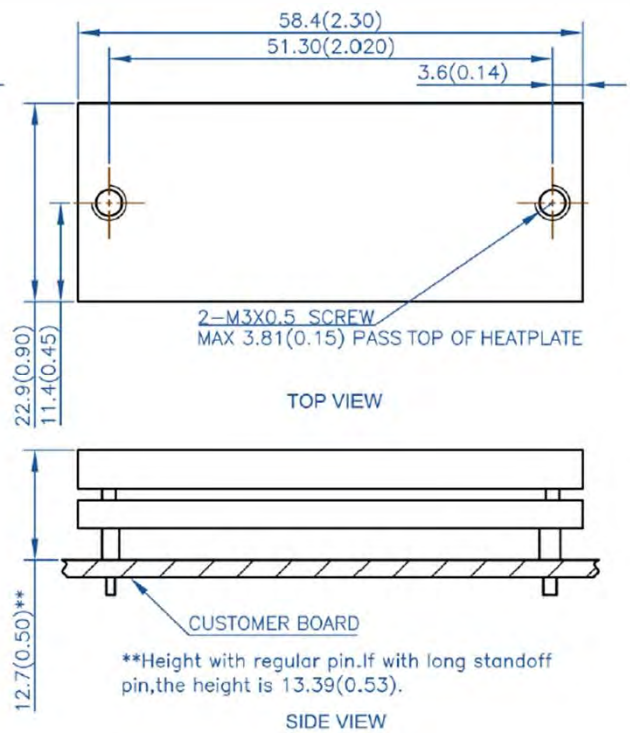
EBE4 Eighth Brick Series

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	TRIM	Optional output voltage adjust
6	Vo(+)	Positive output voltage

40A/480W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0	40	480	95.2%	EBE4120x040xxx



QBE4 Quarter Brick Series

Part Numbering System

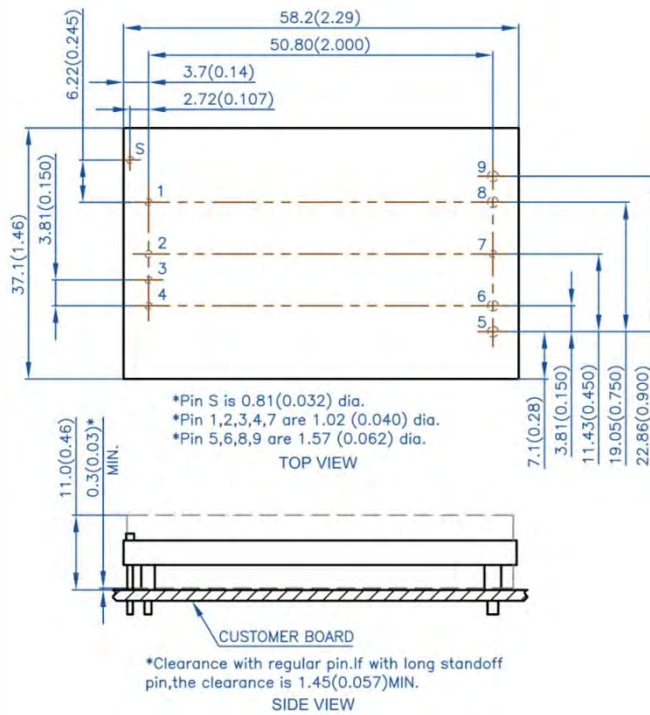
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options *	Suffix
QBE	4	□□□	□	□□□	□	□	□	
	4: 40-60V	Unit: 0.1V Example: 120: 12.0V	P: Positive N: Negative	Unit: A Example: 050: 50A	Regular Standoff -Single output pin: K: 0.110" N: 0.145" R: 0.180" -Double output pin: H: 0.110" P: 0.145" T: 0.180" Long Standoff -Single output pin: E: 0.110" G: 0.145" U: 0.180" L: 0.210" -Double output pin: Z: 0.110" B:0.145" F: 0.180" Y: 0.210"	5: latch off 6: parallel and latch-off 7: auto-restart 8: trim & latch off 9: trim & auto-restart A: parallel and auto-restart S: parallel and auto-restart with S pin for synchronous startup	5: Open frame 6: Baseplate 8: Case pin with baseplate	



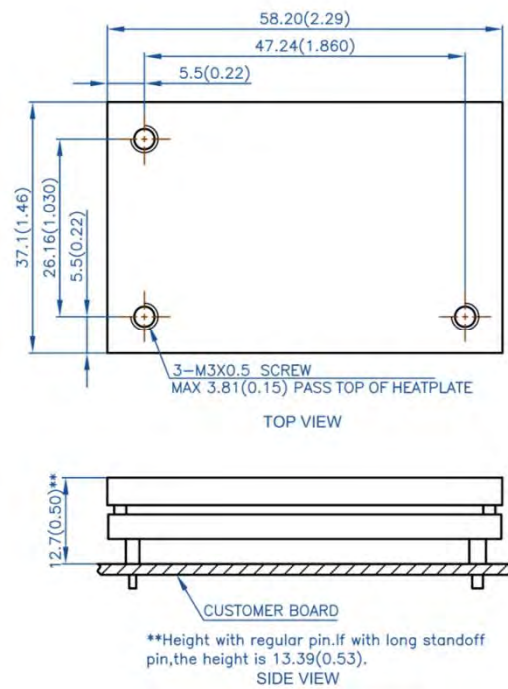
QBE4 Quarter Brick Series

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
S	*S Pin	Synchronous startup
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	CASE(Optional)	Optional case
4	Vin(-)	Negative input voltage
5	Vo(-)	Optional negative output voltage
6	Vo(-)	Negative output voltage
7	TRIM	Output voltage adjust
8	Vo(+)	Positive output voltage
9	Vo(+)	Optional positive output voltage

67A/804W

Output Voltage (V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0	50	600	96.5%	QBE4120x050xxx
	60	720	96.8%	QBE4120x060xxx
	67	804	96.8%	QBE4120x067xxx



MRS4 Thirty-second Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options *	Suffix
MRS	4	□□□	□	□□□	□	□	□	
	4: 36-75V	Unit: 0.1V Example: 050: 5.0V	P: Positive N: Negative	Unit: A Example: 008: 8A	Regular K: 0.110" N: 0.145" R: 0.180" S: SMT**	0: Latch-off 1: Latch-off & without sense pin 2: Auto-restart 3: Auto-restart & without sense pin	5: Open frame 6: Baseplate	

* All parts are lead-free by default. For availability of leaded parts, consult with the factory.

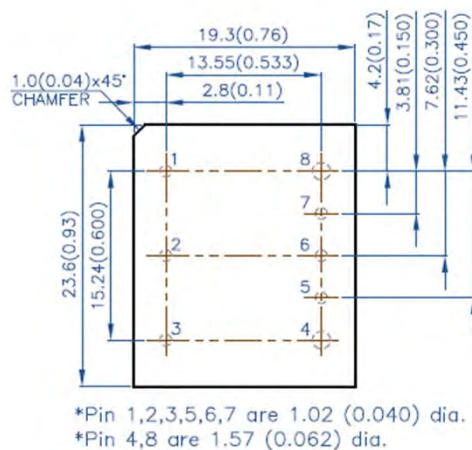
** SMT pins are metal block pins at the same locations as the through-hole pins. The recommended diameter for pad/stencil opening and solder mask opening for these pins is 0.12".



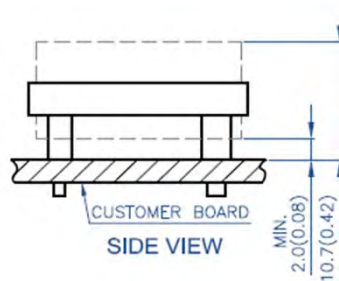
MRS4 Thirty-second Brick Series

Mechanical Dimensions

Open Frame Module

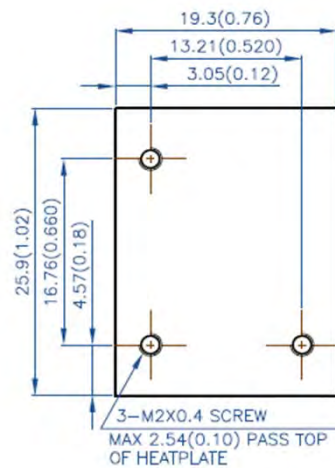


TOP VIEW

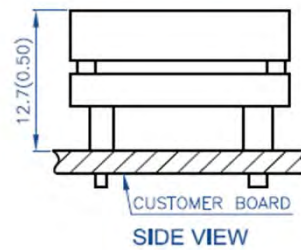


SIDE VIEW

Base Plate Module



TOP VIEW



SIDE VIEW

Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	SENSE(-)	Optional negative remote sense
6	TRIM	Output voltage adjust
7	SENSE(+)	Optional positive remote sense
8	Vo(+)	Positive output voltage

10A/40W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0	3	36	89.0%	MRS4120x003xxx
5.0	5	25	88.0%	MRS4050x005xxx
5.0	8	40	89.0%	MRS4050x008xxx
3.3	10	33	86.5%	MRS4033x010xxx



SRS4 Sixteenth Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options *	Suffix
SRS	4	□□□	□	□□□	□	□	□	
	4: 36-75V	Unit: 0.1V Example: 050: 5.0V	P: Positive N: Negative	Unit: A Example: 010: 10A	Regular K: 0.110" N: 0.145" R: 0.180" S: SMT**	0: Latch-off 2: Auto-restart	5: Open frame 6: Baseplate	

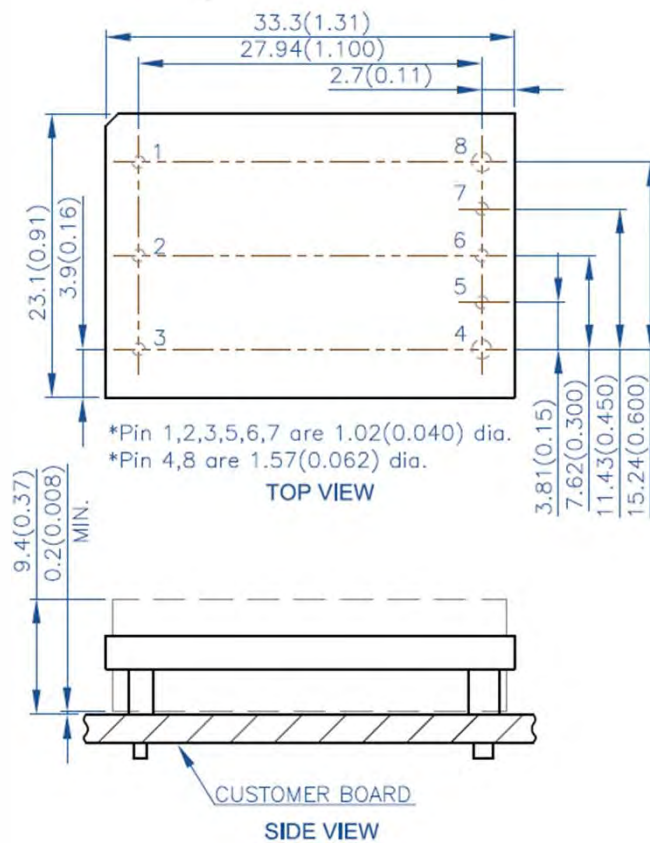
* All parts are lead-free by default. For availability of leaded parts, consult with the factory.

** SMT pins are metal block pins at the same locations as the through-hole pins. The recommended diameter for pad/stencil opening and solder mask opening for these pins is 0.12".

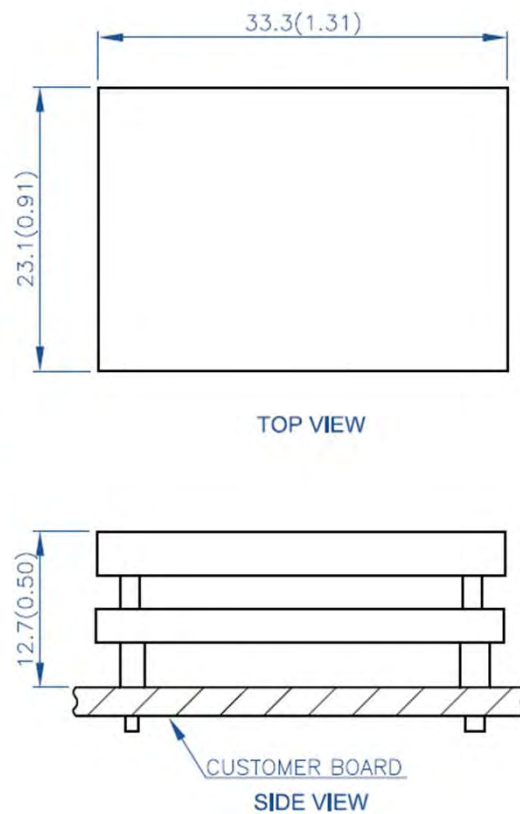


SRS4 Sixteenth Brick Series

Mechanical Dimensions Open Frame Module



Base Plate Module



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	SENSE(-)	Negative remote sense
6	TRIM	Output voltage adjust
7	SENSE(+)	Positive remote sense
8	Vo(+)	Positive output voltage



SRS4 Sixteenth Brick Series

15A/40W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0	3	36	91.0%	SRS4120x003xxx
8.0	5	40	91.0%	SRS4080x005xxx
5.0	8	40	91.5%	SRS4050x008xxx
3.3	10	33	90.5%	SRS4033x010xxx
1.0	15	15	84.0%	SRS4010x015xxx

25A/65W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0	2	24	91%	SCS4120x002xxx
12.0	5	60	92.0%	SRS4120x005xxx
5.0	12	60	91.5%	SRS4050x012xxx
5.0	13	65	91%	SRS4050x013xxx
3.3	18	59.4	91.5%	SRS4033x018xxx
2.5	20	50	90.0%	SRS4025x020xxx
1.5	25	37.5	88.0%	SRS4015x025xxx
1.2	25	30	87.0%	SRS4012x025xxx

35A/100W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
28.0	2.5	70	90.5%	SRS4280x003xxx
15.0	6	90	92.0%	SRS4150x006xxx
12.0	8	96	91%	SRS4120x008xxxE
12.0	7.5	90	92.5%	SRS4120x008xxx
8.0	11	88	92.0%	SRS4080x011xxx
5.0	17	85	91.5%	SRS4050x017xxx
5.0	20	100	91.5%	SRS4050x017xxxJ
3.3	25	82.5	91.5%	SRS4033x025xxx
3.3	30	99	92%	SRS4033x030xxx
2.5	30	75	90.5%	SRS4025x030xxx
1.8	30	54	88.5%	SRS4018x030xxx
1.2	35	42	85.0%	SRS4012x035xxx
1.0	35	35	83.5%	SRS4010x035xxx



ERS4 Eighth Brick Series

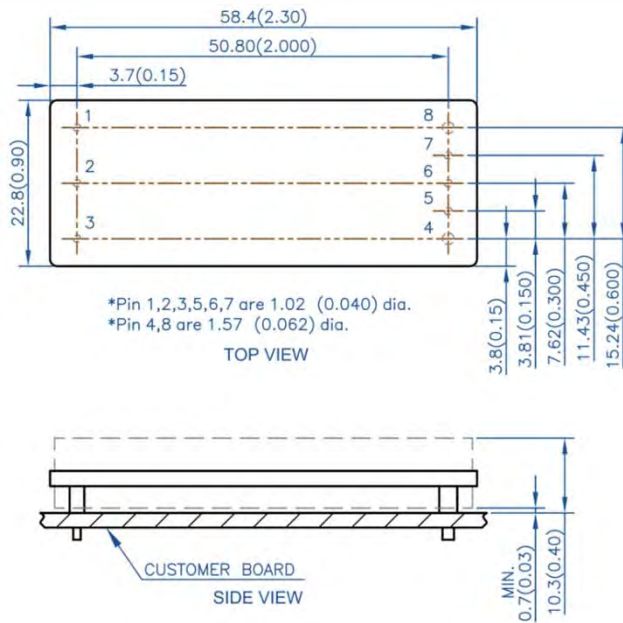
Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
ERS	4	□□□	□	□□□	□	□	□	
	4: 36-75V	Unit: 0.1V Example: 033: 3.3V	P: Positive N: Negative	Unit: A Example: 030: 30A	Regular K: 0.110" N: 0.145" R: 0.180"	0: Latch-off 2: Auto-restart	5: Open frame 6: Baseplate	

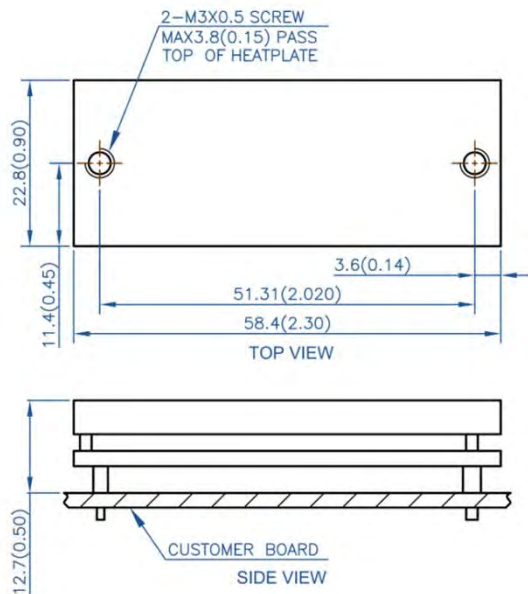


ERS4 Eighth Brick Series

Mechanical Dimensions Open Frame Module



Base Plate Module



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	SENSE(-)	Negative remote sense
6	TRIM	Output voltage adjust
7	SENSE(+)	Positive remote sense
8	Vo(+)	Positive output voltage

20A/60W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0	5	60	92.0%	ERS4120x005xxx
5.0	10	50	91.0%	ERS4050x010xxx
3.3	15	49.5	89.5%	ERS4033x015xxx
1.5	20	30	85.5%	ERS4015x020xxx



ERS4 Eighth Brick Series

30A/84W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0	7	84	93.0%	ERS4120x007xxx
5.0	15	75	92.0%	ERS4050x015xxx
3.3	20	66	91.0%	ERS4033x020xxx
3.3	25	82.5	90.5%	ERS4033x025xxx
2.5	25	62.5	89.5%	ERS4025x025xxx
1.8	30	54	88.5%	ERS4018x030xxx
1.5	30	45	88.0%	ERS4015x030xxx
1.0	30	30	85.8%	ERS4010x030xxx

50A/120W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0	10	120	93.0%	ERS4120x010xxx
5.0	20	100	92.0%	ERS4050x020xxx
3.3	30	99	91.5%	ERS4033x030xxx
2.5	35	88	90.5%	ERS4025x035xxx
1.8	40	72	89.0%	ERS4018x040xxx
1.5	40	60	88.0%	ERS4015x040xxx
1.0	50	50	85.0%	ERS4010x050xxx

80A/144W

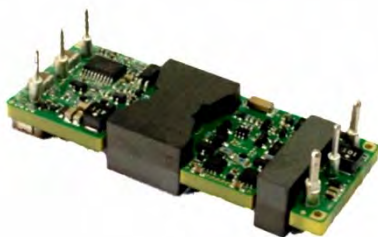
Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
48.0	3	144	91%	ERS4480x003xxx
32.0	3	96	93.0%	ERS4320x003xxxR
28.0	5	140	92.5%	ERS4280x005xxx
15.0	5	75	92.5%	ERS4150x005xxxE
3.3	40	132	92.0%	ERS4033x040xxx
1.5	70	105	88.0%	ERS4015x070xxx
1.2	60	72	86.5%	ERS4012x060xxx
1.0	80	80	84.5%	ERS4010x080xxx



EBC4 Eighth Brick Series

Part Numbering System

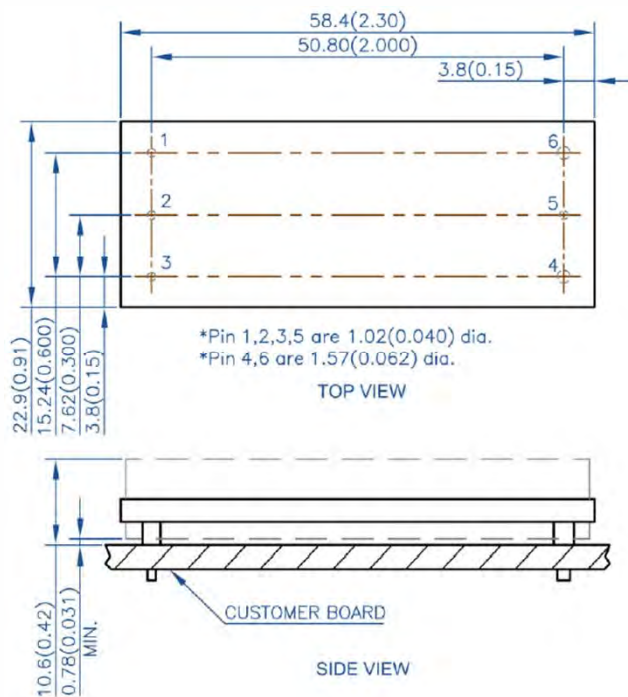
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
EBC	4	□□□	□	□□□	□	□	□	
	4: 36-75V	Unit: 0.1V Example: 120: 12V	P: Positive N: Negative	Unit: A Example: 022:22A	Regular K: 0.110" N: 0.145" R: 0.180"	5: latch off 7: auto-restart 6: parallel and latch-off 8: trim & latch off 9: trim & auto-restart A: parallel and auto-restart	5: Open frame 6: Baseplate	Alphanu meric Symbol: Special code



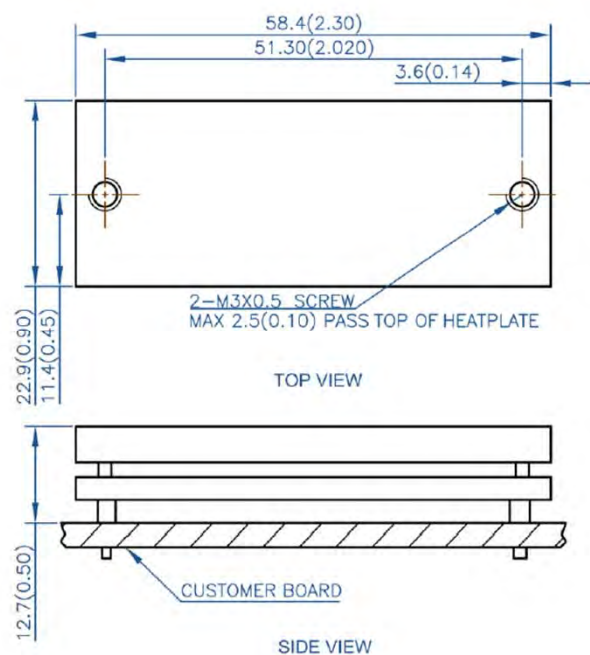
EBC4 Eighth Brick Series

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	TRIM	Output voltage adjust
6	Vo(+)	Positive output voltage



EBC4 Eighth Brick Series

35A/204W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0	17	204	95.0%	EBC4120x017xxx
5.0	35	175	93.0%	EBC4050x035xxx

60A/280W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
28.0	10	280	94%	EBC4280x010xxx
12.0	22	264	95.0%	EBC4120x022xxx
9.6	26	249.6	94.5%	EBC4096x026xxx
9.6	28	268.8	95.0%	EBC4096x028xxx
5.0	42	210	94.0%	EBC4050x042xxx
5.0	46	230	94.0%	EBC4050x046xxx
3.3	60	198	93.0%	EBC4033x060xxx



EBE4 Eighth Brick Series

Part Numbering System

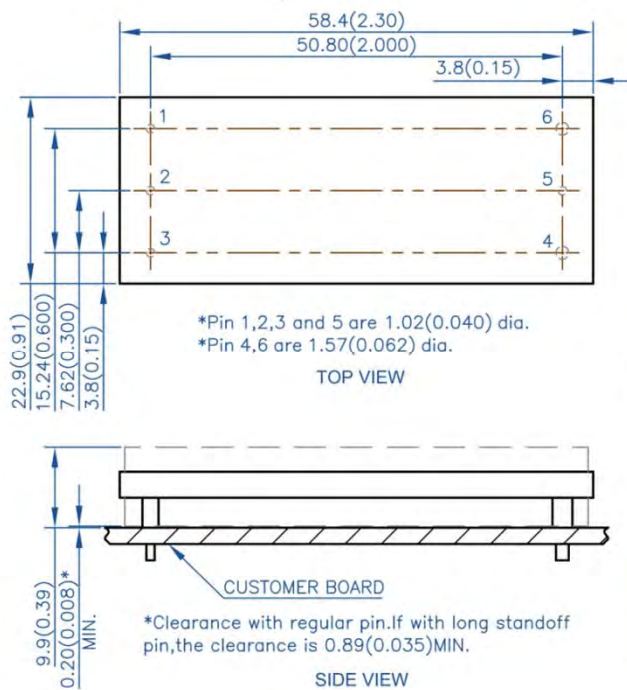
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
EBE	4	□□□	□	□□□	□	□	□	
	4: 36-75V	Unit: 0.1V Example: 120: 12V	P: Positive N: Negative	Unit: A Example: 030:30A	Regular: K: 0.110" N: 0.145" R: 0.180" Long standoff: L: 0.210" U: 0.180" G: 0.145" E: 0.110"	5: latch off 7: auto-restart 8: trim & latch off 9: trim & auto-restart	5: Open frame 6: Baseplate	



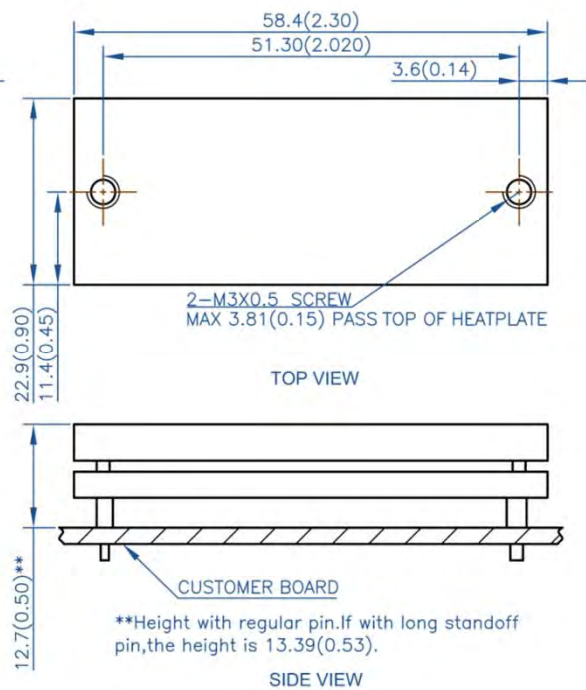
EBE4 Eighth Brick Series

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	TRIM	Output voltage adjust
6	Vo(+)	Positive output voltage

30A/360W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0	30	360	95.0%	EBE4120x030xxx



QPS4 Quarter Brick Series

Part Numbering System

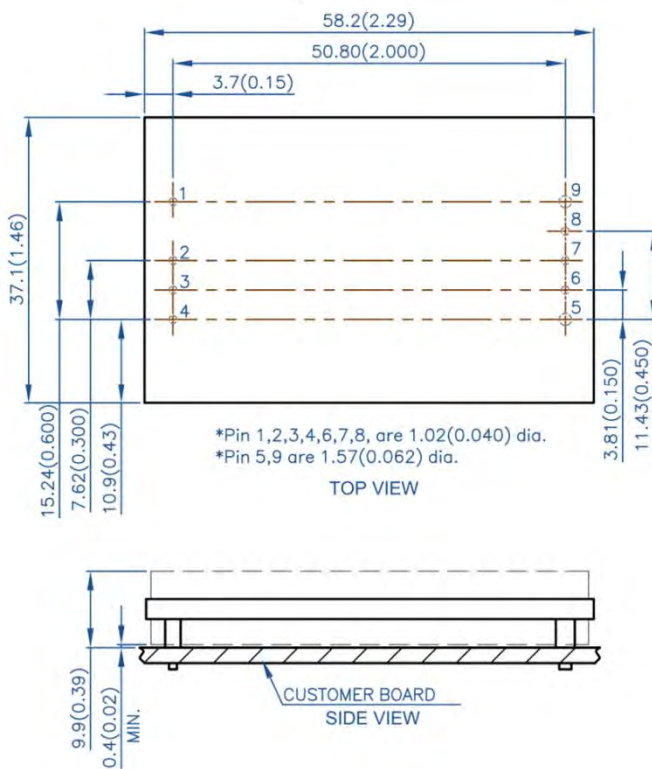
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
QPS	4	□□□	□	□□□	□	□	□	
	4: 36-75V	Unit: 0.1V Example: 010: 1.0V	P: Positive N: Negative	Unit: A Example: 070:70A	Regular K: 0.110" N: 0.145" R: 0.180" Double Pin H: 0.110" P: 0.145" T: 0.180"	0: Latch-off 2: Auto-restart	5: Open frame 6: Baseplate 8: Case pin with baseplate	



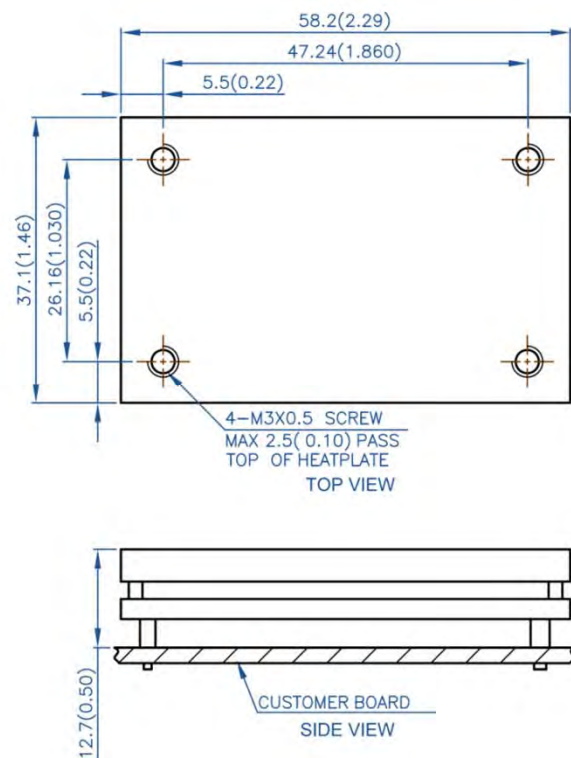
QPS4 Quarter Brick Series

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	OPTIONAL CASE	Optional case
4	Vin(-)	Negative input voltage
5	Vo(-)	Negative output voltage
6	SENSE(-)	Negative remote sense
7	TRIM	Output voltage adjust
8	SENSE(+)	Positive remote sense
9	Vo(+)	Positive output voltage



QPS4 Quarter Brick Series

70A/120W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
48.0	2	96	90.0%	QPS4480x002xxx
1.8	65	117	89.0%	QPS4018x065xxx
1.5	65	97.5	88.0%	QPS4015x065xxx
1.0	70	70	85.0%	QPS4010x070xxx

100A/240W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
48.0	2.5	120	90.5%	QPS4480x003xxx
15.0	13	195	93.0%	QPS4150x013xxx
12.0	17	204	93.5%	QPS4120x017xxx
8.0	30	240	91.0%	QPS4080x030xxxE
7.0	30	210	92.0%	QPS4070x030xxxE
5.0	40	200	92.0%	QPS4050x040xxx
3.3	55	181.5	93.0%	QPS4033x055xxx
2.5	60	150	91.0%	QPS4025x060xxx
1.8	85	153	91.5%	QPS4018x085xxx
1.5	100	150	89.0%	QPS4015x100xxx
1.2	100	120	87.5%	QPS4012x100xxx
1.0	100	100	88.0%	QPS4010x100xxxB



QBC4 Quarter Brick Series

Part Numbering System

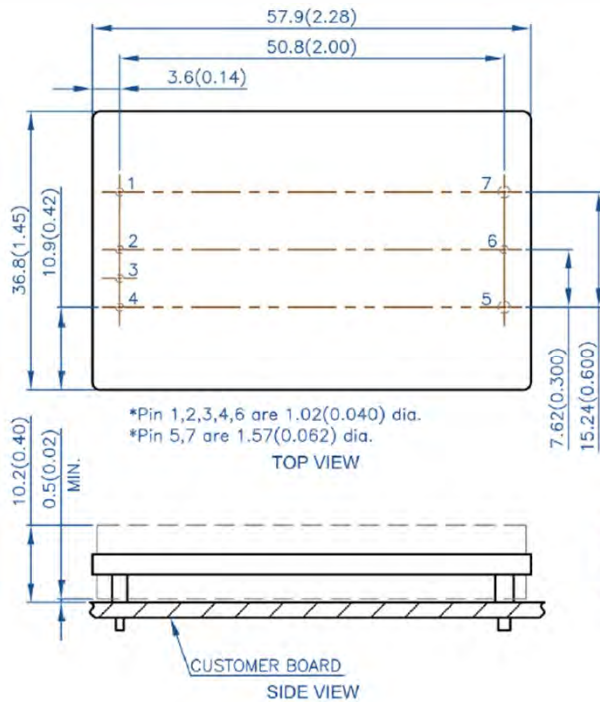
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
QBC	4	□□□	□	□□□	□	□	□	
	4: 36-75V	Unit: 0.1V Example: 065: 6.5V	P: Positive N: Negative	Unit: A Example: 060:60A	Regular K: 0.110" N: 0.145" R: 0.180"	5: Latch-off 6: Parallel 7: Auto-restart 8: Trim & latch-off 9: Trim & auto-restart A: Parallel & auto-restart	5: Open frame 6: Baseplate 8: Case pin with baseplate	



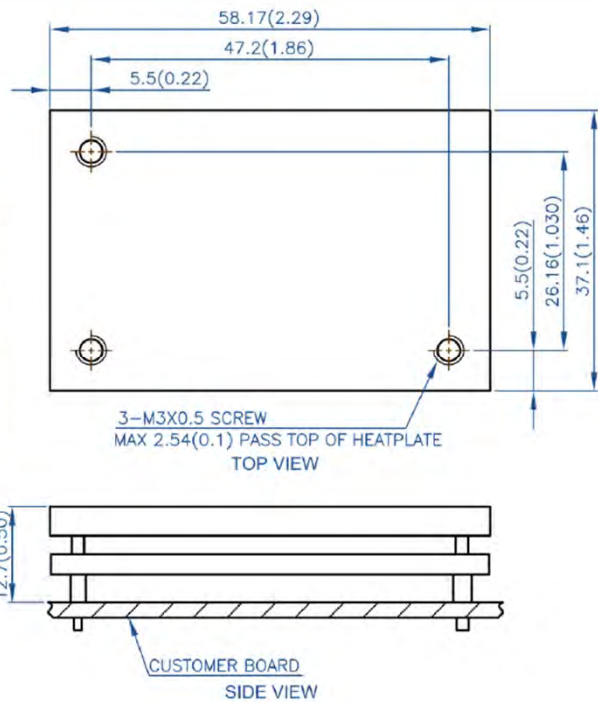
QBC4 Quarter Brick Series

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	OPTIONAL CASE	Optional case
4	Vin(-)	Negative input voltage
5	Vo(-)	Negative output voltage
6	OPTIONAL TRIM	Optional output voltage adjust
7	Vo(+)	Positive output voltage

70A/720W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0	60	720	95.5%	QBC4120x033xxxAB
12.0	38	456	95.5%	QBC4120x033xxxP/ QBC4120x033xxxPR
12.0	33	396	95.5%	QBC4120x033xxx
12.0	28	336	95.0%	QBC4120x028xxx
9.6	41.5	398.4	95.0%	QBC4096x042xxx
9.6	33	316.8	95.0%	QBC4096x033xxx
6.5	60	390	94.8%	QBC4065x060xxx
5.0	60	300	95.0%	QBC4050x060xxx
5.0	70	350	95.0%	QBC4050x070xxx



QBE4 Quarter Brick Series

Part Numbering System

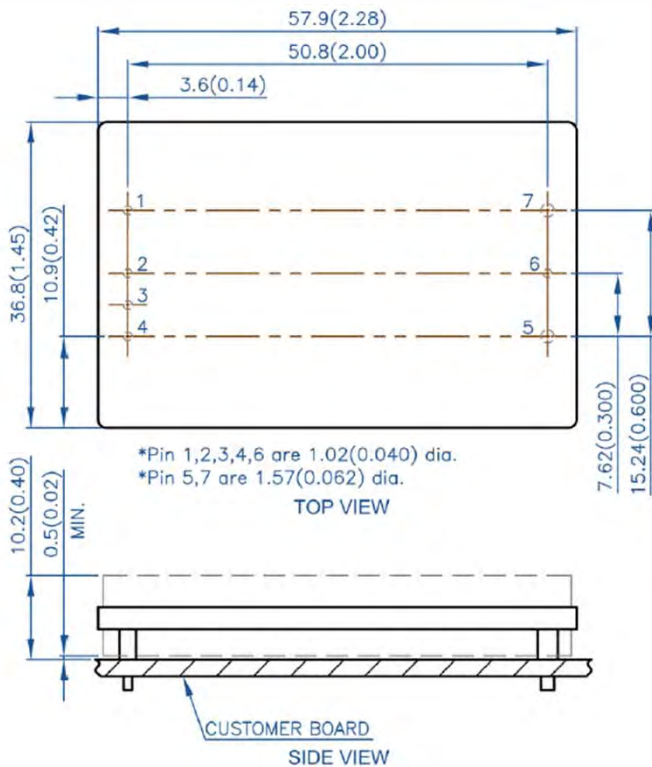
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
QBE	4	□□□	□	□□□	□	□	□	
	4: 36-75V	Unit: 0.1V Example: 120: 12V	P: Positive N: Negative	Unit: A Example: 042:42A	Regular K: 0.110" N: 0.145" R: 0.180"	5: Latch-off 6: Parallel 7: Auto-restart 8: Trim & latch-off 9: Trim & auto-restart A: Parallel & auto-restart	5: Open frame 6: Baseplate 8: Case pin with baseplate	



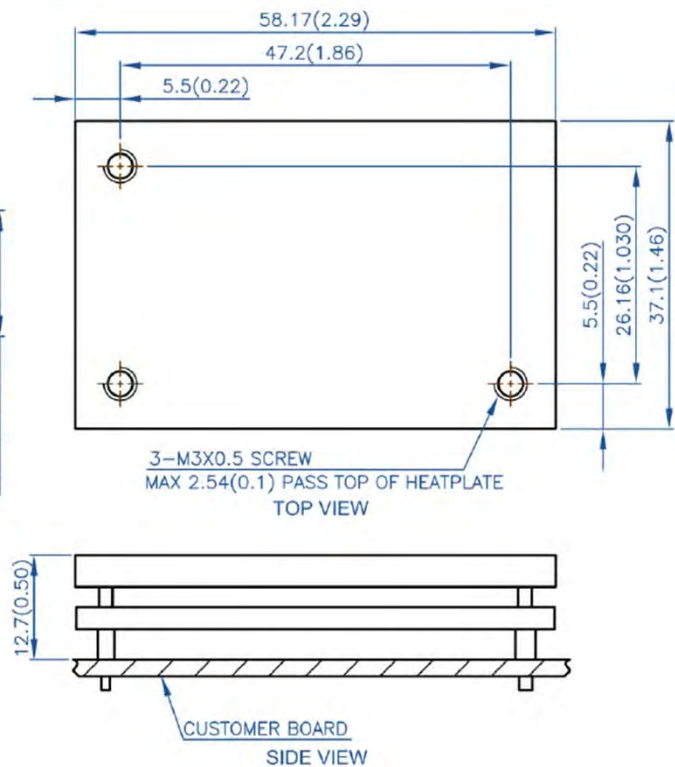
QBE4 Quarter Brick Series

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	OPTIONAL CASE	Optional case
4	Vin(-)	Negative input voltage
5	Vo(-)	Negative output voltage
6	OPTIONAL TRIM	Optional output voltage adjust
7	Vo(+)	Positive output voltage

42A/504W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0	42	504	95.2%	QBE4120x042xxx



QDS4 Quarter Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic*	Output Current	Pin Feature	Electrical Options	Packaging Options	PMBus Options
QDS	4	□□□	□□	□□□	□	□	□	□
	4: 36-75V	Unit: 0.1V Example: 120: 12V	Primary: N: negative P: positive U: control pin deactivated Secondary: N: negative P: positive U: control pin deactivated	Unit: A Example: 033:33A	Regular K: 0.110" N: 0.145" R: 0.180"	0: latch-up, no droop 1: latch-up, droop 2: auto-restart, no droop A: auto-restart, with droop	5: Open frame 6: Baseplate 8: Baseplate with case pin	Omit: With PMBus interface; A: Without PMBus interface

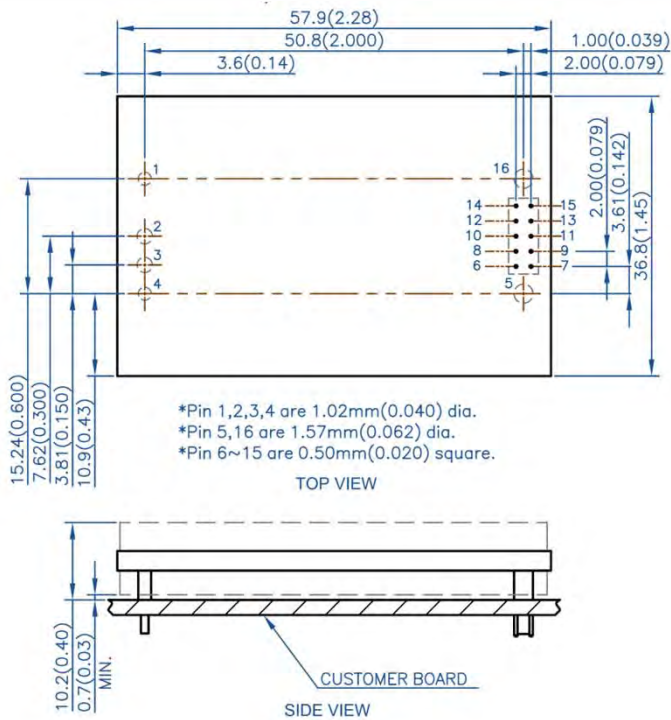
*: Options specified by part number are default configuration. These options can be reconfigured later by PMBus commands.



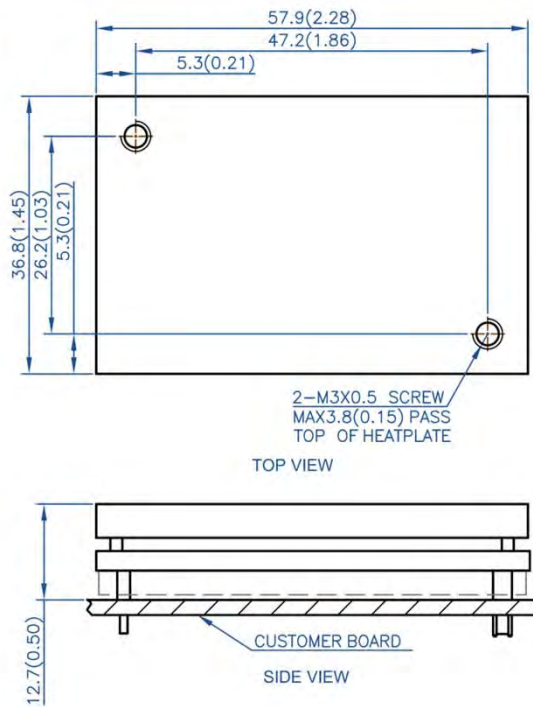
QDS4 Quarter Brick Series

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	Vin(+)	Positive input
2	RC	Remote control
3	GND	Connected to negative Vin(-)
4	Vin(-)	Negative input
5	Vo(-)	Negative output
6	SENSE(+)	Positive remote sense
7	SENSE(-)	Negative remote sense
8	ADDE0	Address pin0
9	ADDR1	Address pin1
10	SCL	PMBus clock
11	SDA	PMBus data
12	MULTI	Configurable I/O Pin: Power Good output
13	DGND	PMBus ground
14	SALERT	PMBus alert signal
15	CTRL	PMBus Remote Control
16	Vo(+)	Positive output

33A/396W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0	33	396	95.5%	QDS4120xx033xxxx



HPS4 Half Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
HPS	4	□□□	□	□□□	□	□	□	
	4: 36-75V	Unit: 0.1V Example: 120: 12V	P: Positive N: Negative	Unit: A Example: 030:30A	Regular K: 0.110" N: 0.145" R: 0.180"	0: I-share/latch off 2: I-share/auto-restart 5*: No I-share/latch off 7*: No I-share/auto-restart	5: Open frame 6: Baseplate 8: Case pin with baseplate	

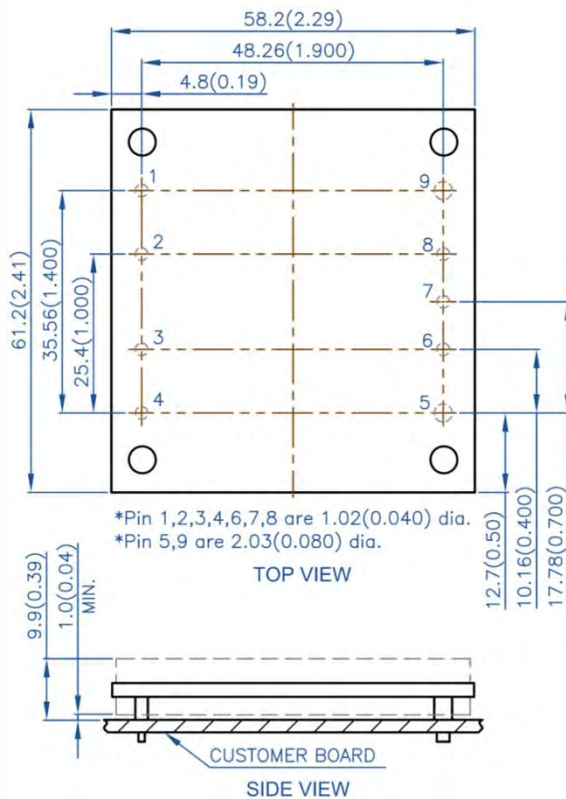
**When "5" or "7" is selected, the "Share" pin (Pin 3) does not exist.*



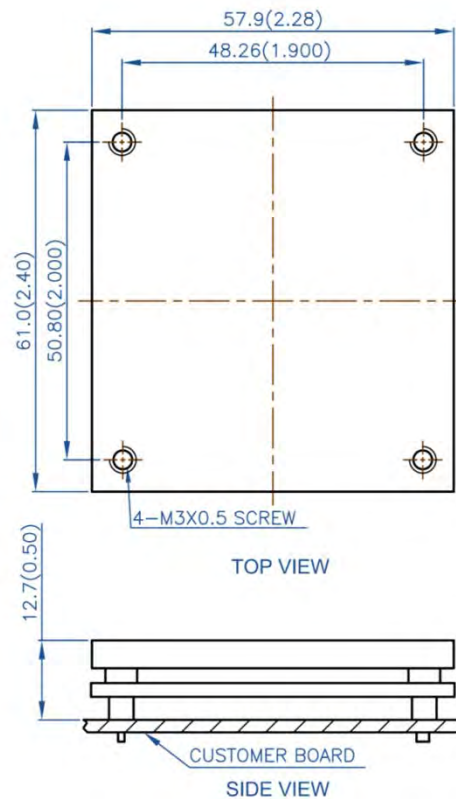
HPS4 Half Brick Series

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	SHARE (Optional)	Current share
4	Vin(-)	Negative input voltage
5	Vo(-)	Negative output voltage
6	SENSE(-)	Negative remote sense
7	TRIM	Output voltage adjust
8	SENSE(+)	Positive remote sense
9	Vo(+)	Positive output voltage

80A/504W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
48.0	10	480	94.0%	HPS4480x010xxx
28.0	18	504	93.0%	HPS4280x018xxx
12.0	30	360	93.0%	HPS4120x030xxx
6.5	65	422.5	92.0%	HPS4065x065xxx
5.0	80	400	92.0%	HPS4050x080xxx



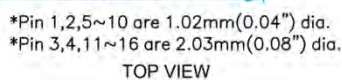
FPS4 Full Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
FPS	4	□□□	□	□□□	□	□	□	
	4: 36-75V	Unit: 0.1V Example: 280: 28V	P: Positive N: Negative	Unit: A Example: 028:28A	Regular K: 0.110" N: 0.145" R: 0.180"	0: Latch-off 2: Auto Restart	5: Open frame 6: Baseplate	



Open Frame Module



116.8(4.60")

106.68(4.200")

50.81(2.000")

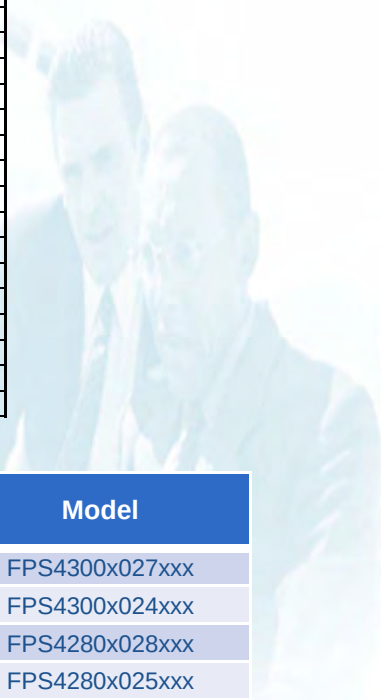
61.0(2.40")

4-M3X0.5 SCREW
MAX 0.15"PASS TOP OF HEATPLATE

TOP VIEW

CUSTOMER BOARD

SIDE VIEW



Model
FPS4300x027xxx
FPS4300x024xxx
FPS4280x028xxx
FPS4280x025xxx

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
30.0	26.7	801	93.5%	FPS4300x027xxx
30.0	23.5	705	93.5%	FPS4300x024xxx
28.0	28	784	93.5%	FPS4280x028xxx
28.0	25	700	93.5%	FPS4280x025xxx



LRS3-W 1x1 Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
LRS	3	□□□	□	□□□	□	□	□	
	See suffix	Unit: 0.1V Example: 033: 3.3V	P: Positive N: Negative	Unit: A Example: 007: 7A	Regular K: 0.110" N: 0.145" R: 0.180" S: SMT*	0: Latch-off 2: Auto Restart	5: Open frame	W: 18-75V Input range

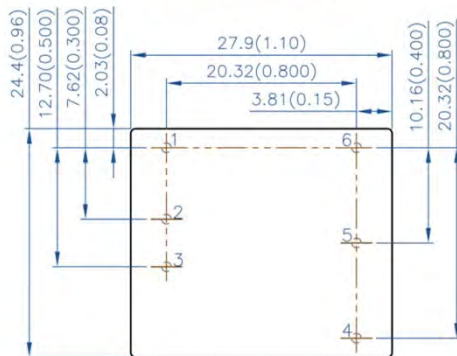
* SMT pins are metal block pins at the same locations as the through-hole pins. The recommended diameter for pad/stencil opening and solder mask opening for these pins is 0.12".



LRS3-W 1x1 Brick Series

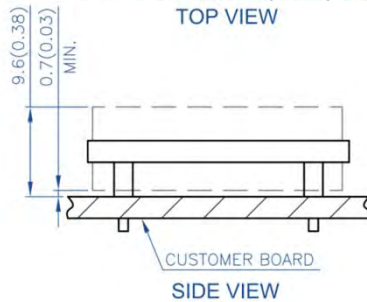
Mechanical Dimensions

Open Frame Module



*All Pins are 1.02mm(0.040) dia.

TOP VIEW



SIDE VIEW

Pin	Name	Function
1	ON/OFF	Remote control
2	Vin(-)	Negative input
3	Vin(+)	Positive input
4	Vo(+)	Positive output
5	TRIM	Output voltage adjust
6	Vo(-)	Negative output

7A/23.1W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0V	1.5A	18	87.0%	LRS3120x1A5xxxW
5.0V	4A	20	88.0%	LRS3050x004xxxW
3.3V	7A	23.1	86.0%	LRS3033x007xxxW



SRS3-W Sixteenth Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
SRS	3	□□□	□	□□□	□	□	□	
	See suffix	Unit: 0.1V Example: 033: 3.3V	P: Positive N: Negative	Unit: A Example: 010:10A	Regular K: 0.110" N: 0.145" R: 0.180" S: SMT*	0: Latch-off 2: Auto-restart	5: Open frame 6: Baseplate	W: 18-75V Input range

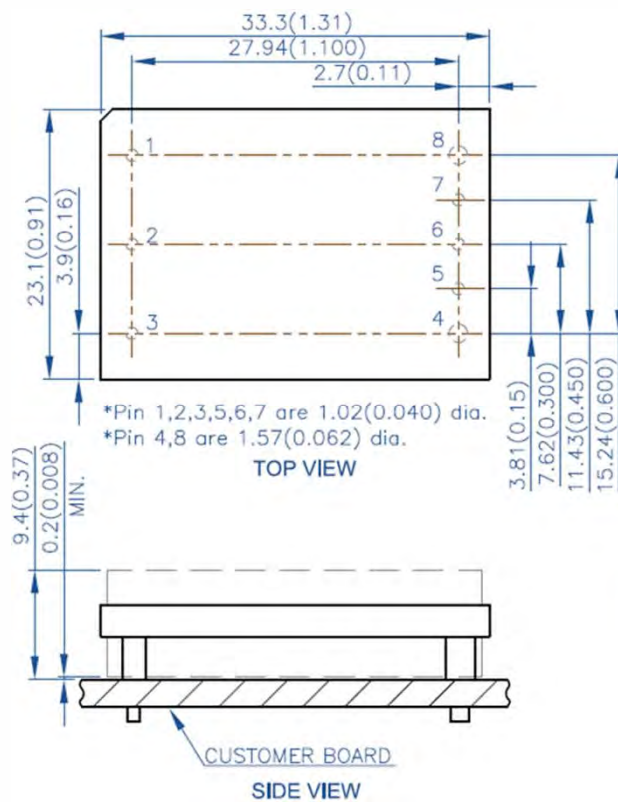
* SMT pins are metal block pins at the same locations as the through-hole pins. The recommended diameter for pad/stencil opening and solder mask opening for these pins is 0.12".



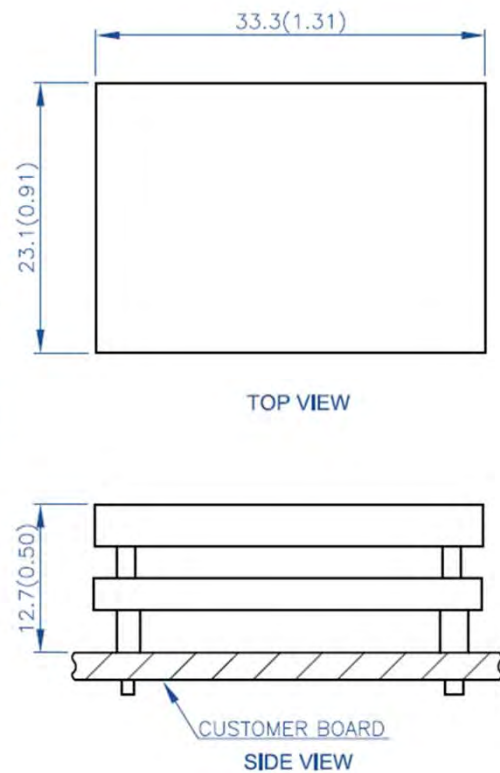
SRS3-W Sixteenth Brick Series

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	SENSE(-)	Negative remote sense
6	TRIM	Output voltage adjust
7	SENSE(+)	Positive remote sense
8	Vo(+)	Positive output voltage



SRS3-W Sixteenth Brick Series

15A/72W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
15.0	4	60	91.5%	SRS3150x004xxxW
15.0	3	45	92.0%	SRS3150x003xxxW
12.0	6	72	91.0%	SRS3120x006xxxW
12.0	5	60	92.0%	SRS3120x005xxxW
12.0	3	36	92.5%	SRS3120x003xxxW
8.0	7	56	91.0%	SRS3080x007xxxW
8.0	5	40	91.0%	SCS3080x005xxxW
8.0	4	32	91.0%	SRS3080x004xxxW
5.0	12	60	90.5%	SRS3050x012xxxW
5.0	10	50	91.5%	SRS3050x010xxxW
5.0	8	40	92.0%	SRS3050x008xxxW
3.3	20	66	89.5%	SRS3033x020xxxW
3.3	15	49.5	89.5%	SRS3033x015xxxW
3.3	10	33	89.5%	SRS3033x010xxxW



ERS3-W Eighth Brick Series

Part Numbering System

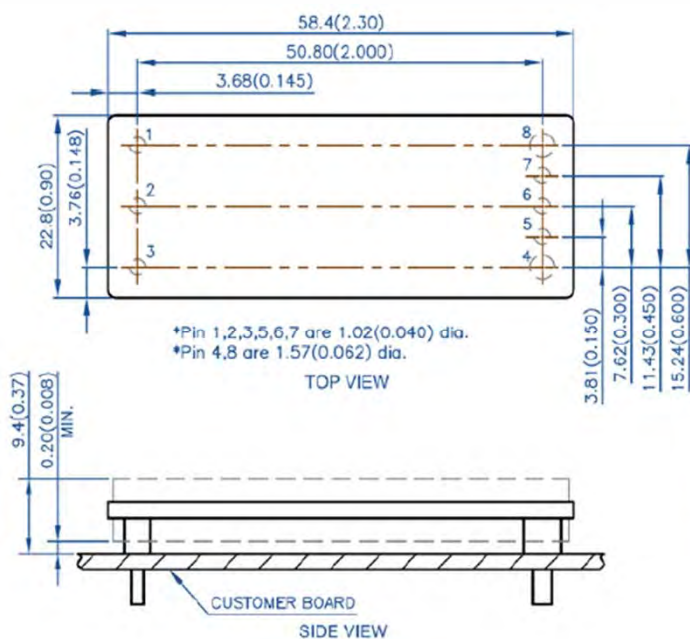
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
ERS	3	□□□	□	□□□	□	□	□	
	See suffix	Unit: 0.1V Example: 120: 12V	P: Positive N: Negative	Unit: A Example: 009:9A	Regular K: 0.110" N: 0.145" R: 0.180"	0: Latch-off 2: Auto-restart	5: Open frame 6: Baseplate	W: 18-75V Input range



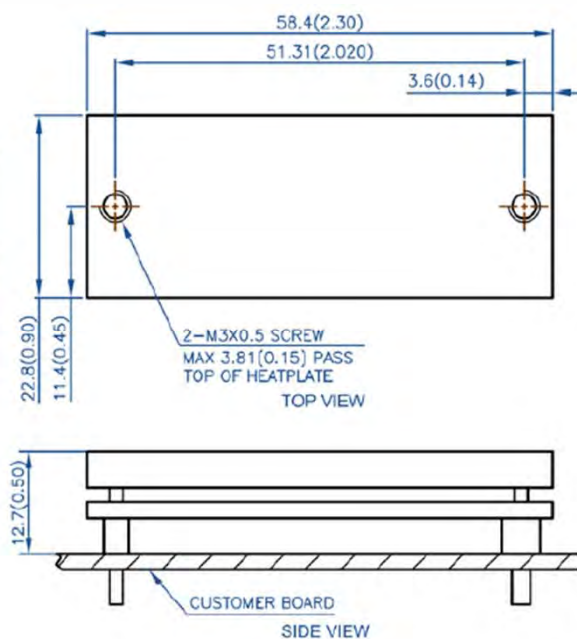
ERS3-W Eighth Brick Series

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	SENSE(-)	Negative remote sense
6	TRIM	Output voltage adjust
7	SENSE(+)	Positive remote sense
8	Vo(+)	Positive output voltage



ERS3-W Eighth Brick Series

20A/72W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0	6	72	90.0%	ERS3120x006xxxW
5.0	9	45	90.0%	ERS3050x009xxxW
5.0	14	70	90.5%	ERS3050x014xxxW
3.3	20	66	89.0%	ERS3033x020xxxW

30A/140W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
32.0	3	96	92.0%	ERS3320x003xxxW
28.0	5	140	92.0%	ERS3280x005xxxW
28.0	4	112	91.5%	ERS3280x004xxxW
24.0	4	96	92.5%	ERS3240x004xxxW
12.0	10	120	91.0%	ERS3120x010xxxWE
12.0	9	108	91.0%	ERS3120x009xxxW
8.0	15	120	91.0%	ERS3080X015xxxW
5.0	20	100	91.5%	ERS3050x020xxxW
3.3	30	99	89.0%	ERS3033x030xxxW



QPS3-W Quarter Brick Series

Part Numbering System

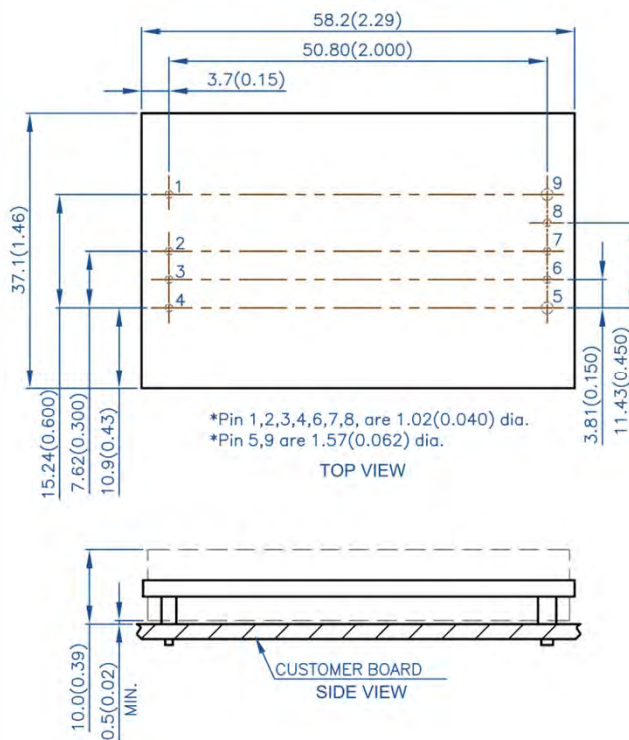
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
QPS	3	□□□	□	□□□	□	□	□	
	See suffix	Unit: 0.1V Example: 120: 12V	P: Positive N: Negative	Unit: A Example: 011:11A	Regular K: 0.110" N: 0.145" R: 0.180" Double Pin H: 0.110" P: 0.145" T: 0.180"	0: Latch-off 2: Auto-restart	5: Open frame 6: Baseplate 8: Case pin with baseplate	W: 18-75V Input range



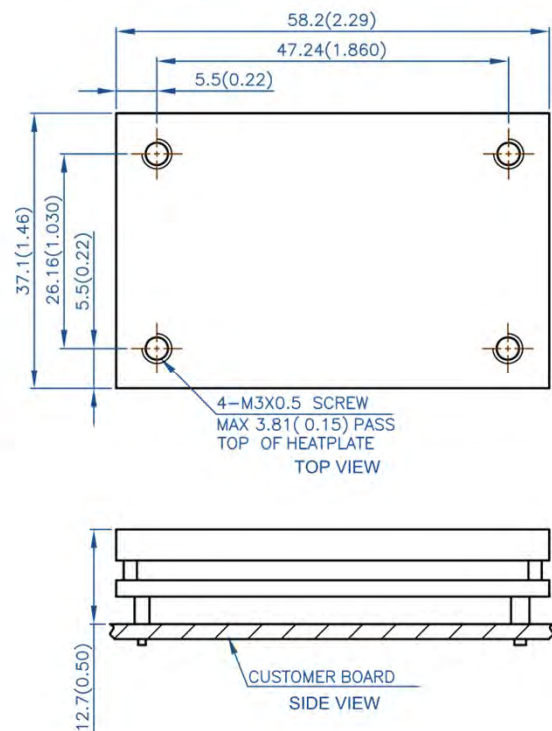
QPS3-W Quarter Brick Series

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	SENSE(-)	Negative remote sense
6	TRIM	Output voltage adjust
7	SENSE(+)	Positive remote sense
8	Vo(+)	Positive output voltage



QPS3-W Quarter Brick Series

60A/228W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
48.0	2	96	93.0%	QPS3480x002xxxW
28.0	5	140	93.0%	QPS3280x005xxxW
15.0	13	195	92.0%	QPS3150x013xxxW
12.0	19	228	93.5%	QPS3120x019xxxW
12.0	17	204	93.5%	QPS3120x017xxxWE
12.0	11	132	92.0%	QPS3120x011xxxW
5.0	40	200	91.0%	QPS3050x040xxxWE
5.0	25	125	91.0%	QPS3050x025xxxWE
3.3	60	198	91.0%	QPS3033x060xxxW
3.3	35	115.5	91.0%	QPS3033x035xxxW



HPS3-W Half Brick Series

Part Numbering System

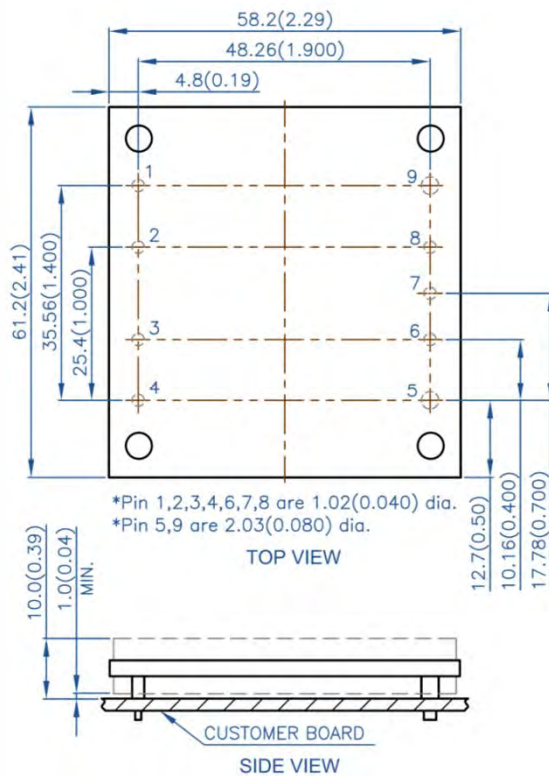
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
HPS	3	□□□	□	□□□	□	□	□	
	See suffix	Unit: 0.1V Example: 120: 12V	P: Positive N: Negative	Unit: A Example: 030:30A	Regular 0: I-share/latch off 2: I-share/auto-restart 5: No I-share/latch off 7: No I-share/auto-restart	0: Latch-off 2: Auto-restart	5: Open frame 6: Baseplate	W: 18-75V Input range



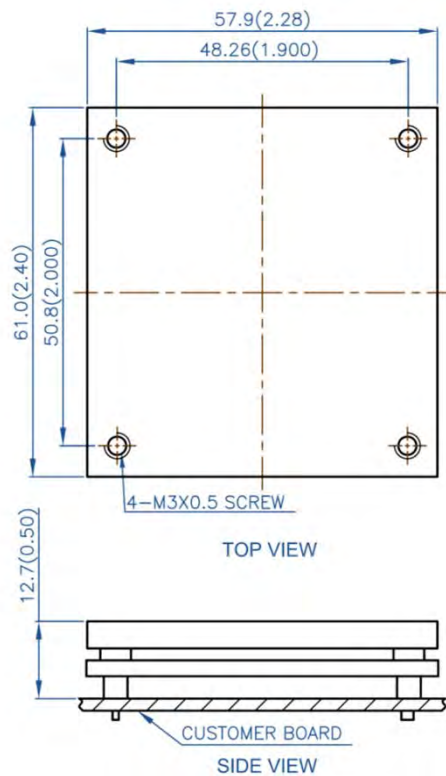
HPS3-W Half Brick Series

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Share (Optional)	Current share
4	Vin(-)	Negative input voltage
5	Vo(-)	Negative output voltage
6	SENSE(-)	Negative remote sense
7	TRIM	Output voltage adjust
8	SENSE(+)	Positive remote sense
9	Vo(+)	Positive output voltage

30A/360W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0	30	360	90.5%	HPS3120x030xxxW



ERS3 Eighth Brick Series

Part Numbering System

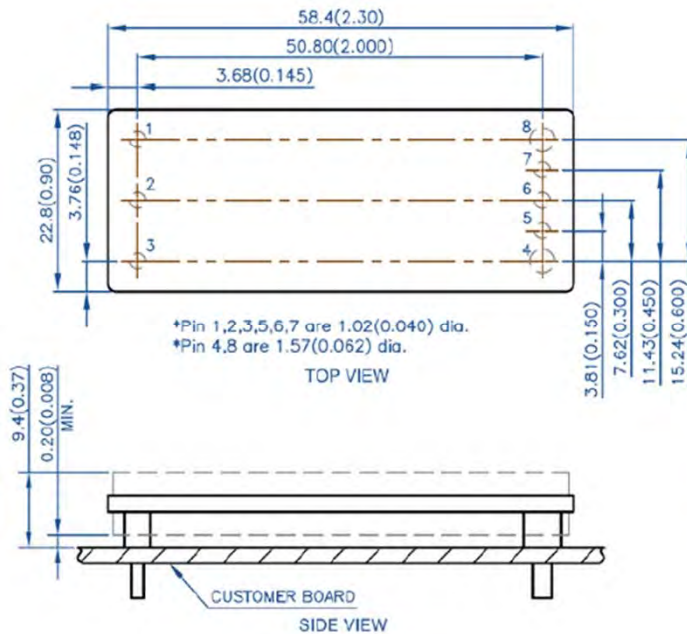
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
ERS	3	□□□	□	□□□	□	□	□	
	3: 18-60V	Unit: 0.1V Example: 033: 3.3V	P: Positive N: Negative	Unit: A Example: 035:35A	Regular K: 0.110" N: 0.145" R: 0.180" Long standoff: L: 0.210" U: 0.180" G: 0.145" E: 0.110"	0: Latch-off 2: Auto-restart	5: Open frame 6: Baseplate	



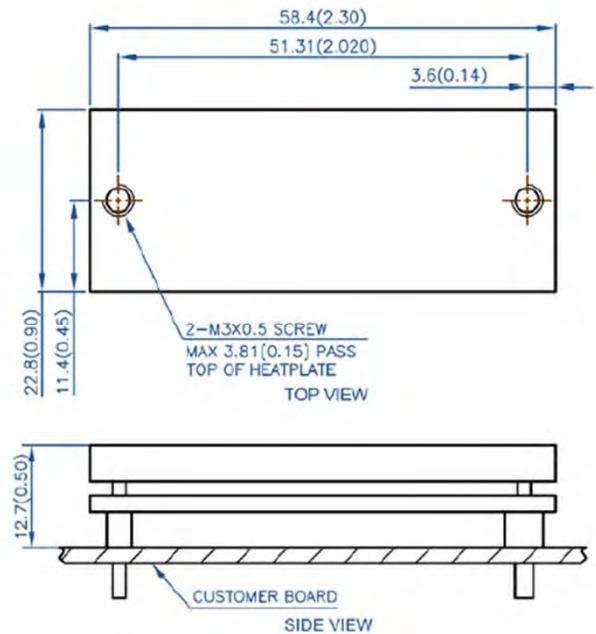
ERS3 Eighth Brick Series

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	SENSE(-)	Negative remote sense
6	TRIM	Output voltage adjust
7	SENSE(+)	Positive remote sense
8	Vo(+)	Positive output voltage

35A/115.5W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
3.3	35	115.5	90.0%	ERS3033x035xxx



MRS2 Thirty-second Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
MRS	2	□□□	□	□□□	□	□	□	
	2:18-36V	Unit: 0.1V Example: 050: 5V	P: Positive N: Negative	Unit: A Example: 008:8A	Regular K: 0.110" N: 0.145" R: 0.180" S: SMT*	0:Latch-off 1: Latch-off& without sense pin 2: Auto-restart 3:Auto-restart& without sense pin	5: Open frame 6: Baseplate	

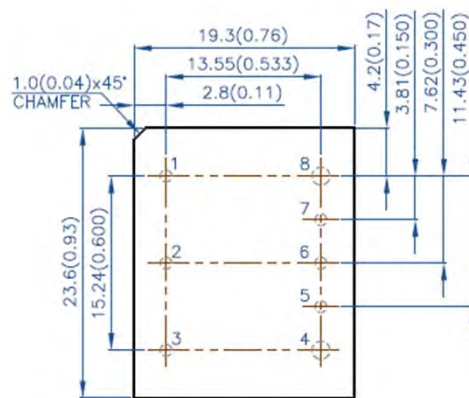
* SMT pins are metal block pins at the same locations as the through-hole pins. The recommended diameter for pad/stencil opening and solder mask opening for these pins is 0.12".



MRS2 Thirty-second Brick Series

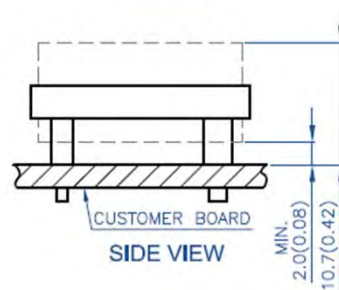
Mechanical Dimensions

Open Frame Module



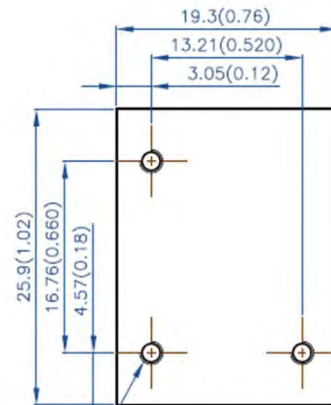
*Pin 1,2,3,5,6,7 are 1.02 (0.040) dia.
*Pin 4,8 are 1.57 (0.062) dia.

TOP VIEW

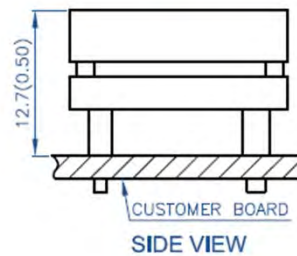


SIDE VIEW

Base Plate Module



TOP VIEW



SIDE VIEW

Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	OPTIONAL SENSE(-)	OPTIONAL Negative remote sense
6	TRIM	Output voltage adjust
7	OPTIONAL SENSE(+)	OPTIONAL Positive remote sense
8	Vo(+)	Positive output voltage





MRS2 Thirty-second Brick Series

10A/45W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
28.0	1.5	42	87.0%	MRS2280x002xxx
15.0	3	45	87.0%	MRS2150x003xxx
12.0	3	36	88.0%	MRS2120x003xxx
8.0	5	40	88.0%	MRS2080x005xxx
6.0	5	30	87.0%	MRS2060x005xxx
5.0	8	40	88.0%	MRS2050x008xxx
3.3	10	33	86.0%	MRS2033x010xxx



SRS2 Sixteenth Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
SRS	2	□□□	□	□□□	□	□	□	
	2: 18-36V	Unit: 0.1V Example: 050: 5V	P: Positive N: Negative	Unit: A Example: 012:12A	Regular K: 0.110" N: 0.145" R: 0.180" S: SMT*	0: Latch-off 2: Auto-restart	5: Open frame 6: Baseplate	

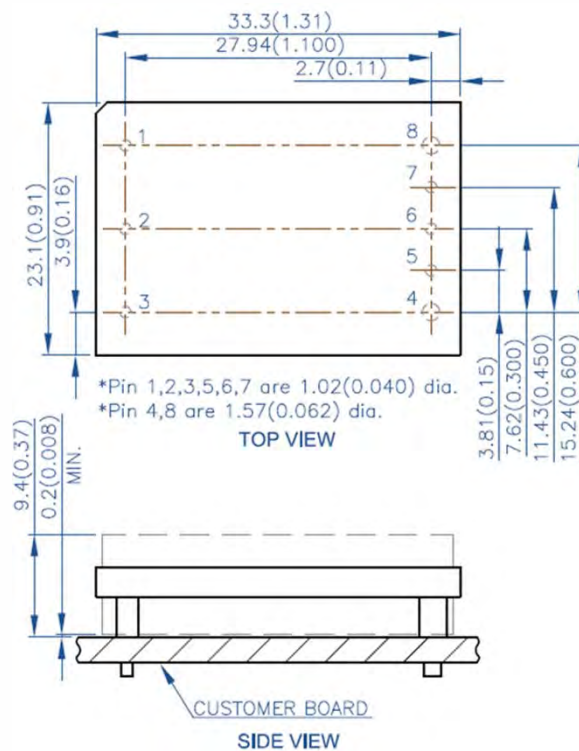
* SMT pins are metal block pins at the same locations as the through-hole pins. The recommended diameter for pad/stencil opening and solder mask opening for these pins is 0.12".



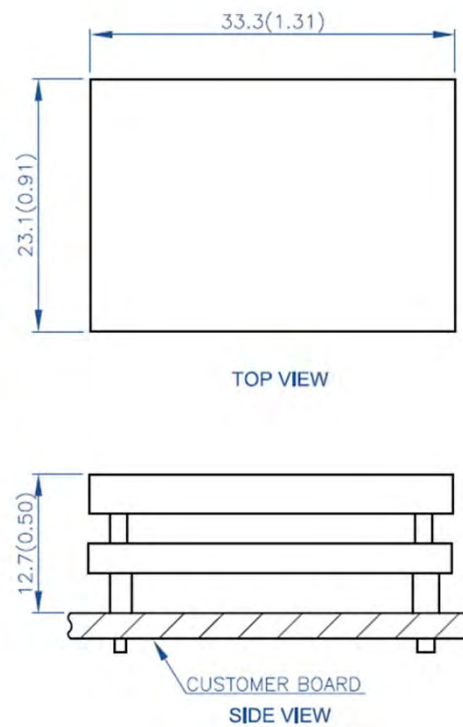
SRS2 Sixteenth Brick Series

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	SENSE(-)	Negative remote sense
6	TRIM	Output voltage adjust
7	SENSE(+)	Positive remote sense
8	Vo(+)	Positive output voltage



SRS2 Sixteenth Brick Series

10A/64W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
15.0	3	45	90.0%	SRS2150x003xxx
12.0	5	60	92.0%	SRS2120x005xxx
12.0	3	36	91.5%	SRS2120x003xxx
8.0	8	64	91.0%	SRS2080x008xxx
6.0	10	60	91.0%	SRS2060x010xxx
6.0	6	36	92.0%	SRS2060x006xxx
6.0	3	18	92.0%	SRS2060x003xxx
5.0	12	60	92.0%	SRS2050x012xxx
5.0	8	40	92.0%	SRS2050x008xxx
3.3	10	33	91.0%	SRS2033x010xxx

25A/96W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
28.0	2.5	70	91.5%	SRS2280x003xxx
15.0	6	90	90.0%	SRS2150x006xxx
12.0	7.5	90	91.0%	SRS2120x008xxx
8.0	11	88	91.0%	SRS2080x011xxx
6.0	12	72	92.0%	SRS2060x012xxx
5.0	17	85	91.5%	SRS2050x017xxx
3.3	25	83	91.0%	SRS2033x025xxx
3.3	18	59.4	91.0%	SRS2033x018xxx
3.3	15	49.5	91.0%	SRS2033x015xxx



SYRS2 Sixteenth Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix	Operating Temperature Grade (°C)*
SYRS	2	□□□	□	□□□	□	□	□		□
	2: 18-36V	Unit: 0.1V Example: 050: 5V	P: Positive N: Negative	Unit: A Example: 012:12A	Regular K:0.110" N:0.145" R:0.180"	0: Latch-off 2: Auto-restart	R: Potted, metal case S: Potted, metal shield, flange P: Potted, baseplate F: Potted, flange	Custom Code	H: -40 to +100 M: -55 to +100

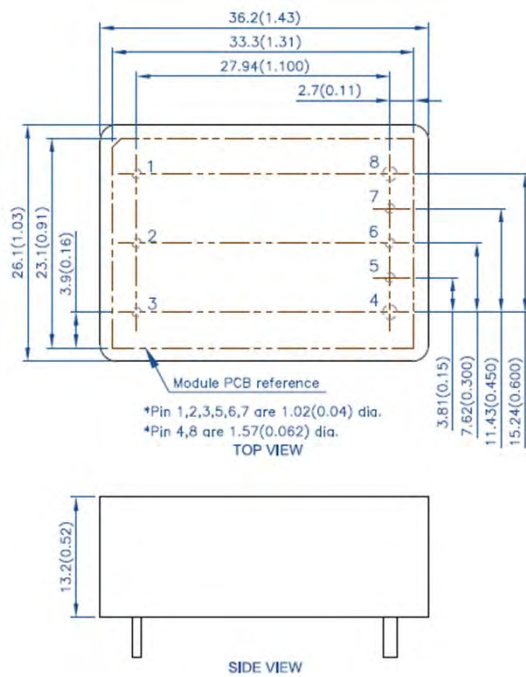
* Operating temperature is the temperature measured at the center of the baseplate (the top of the case).



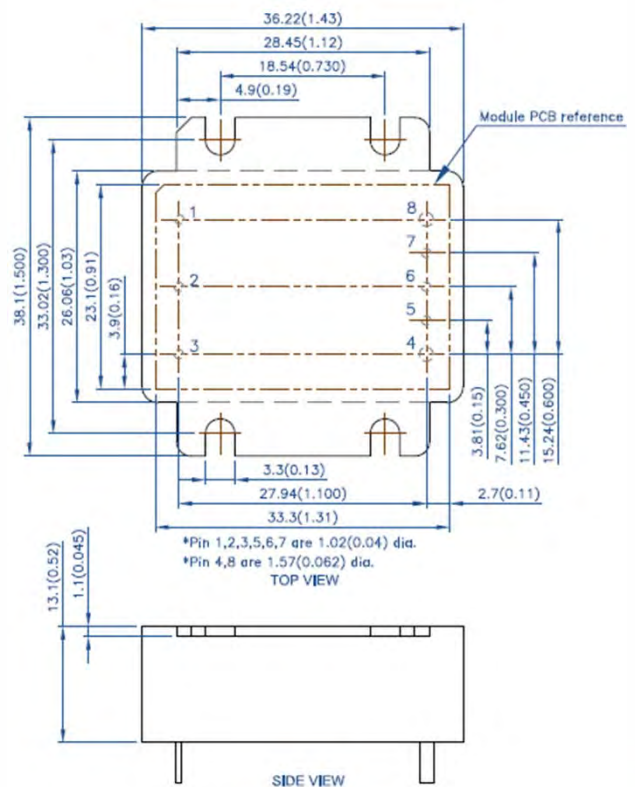
SYRS2 Sixteenth Brick Series

Mechanical Dimensions

Potted, baseplate



Potted, flange



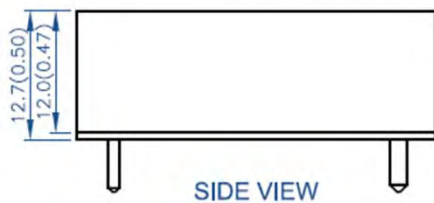
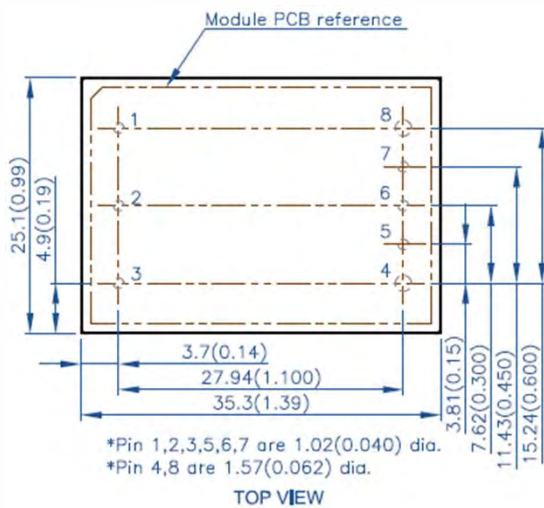
Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	SENSE(-)	Negative remote sense
6	TRIM	Output voltage adjust
7	SENSE(+)	Positive remote sense
8	Vo(+)	Positive output voltage



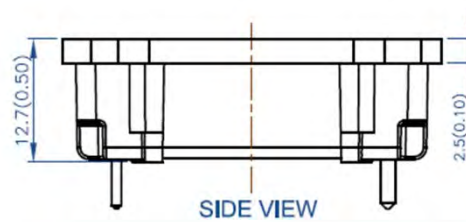
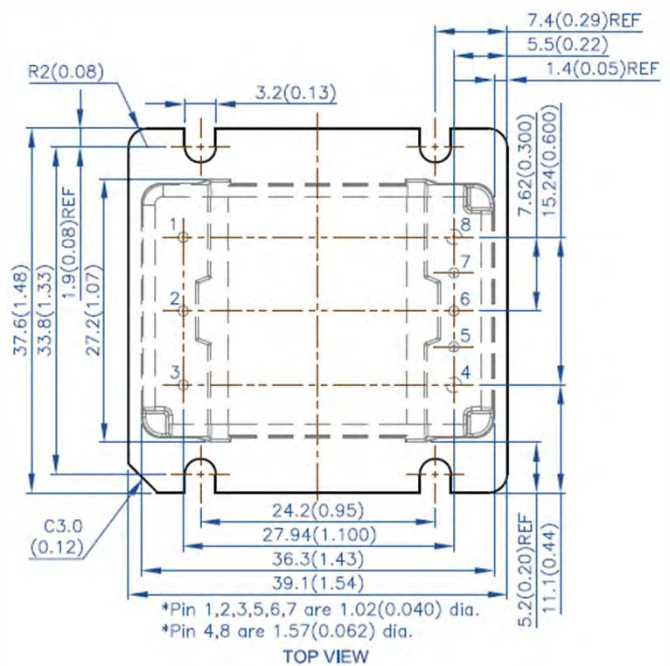
SYRS2 Sixteenth Brick Series

Mechanical Dimensions

Potted, metal case



Potted, metal shield, flange



SYRS2 Sixteenth Brick Series

12A/64W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
15.0	3	45	90.0%	SYRS2150x003xxxx-x
12.0	3	36	91.5%	SYRS2120x003xxxx-x
9.0	6	54	90.5%	SYRS2090x006xxxx-x
8.0	8	64	91.0%	SYRS2080x008xxxx-x
6.0	6	36	92.5%	SYRS2060x006xxxx-x
5.0	12	60	92.0%	SYRS2050x012xxxx-x

25A/96W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
28.0	2.5	70	91.5%	SYRS2280x003xxxx-x
15.0	6	90	92.0%	SYRS2150x006xxxx-x
12.0	7.5	90	91.0%	SYRS2120x008xxxx-x
8.0	11	88	91.0%	SYRS2080x011xxxx-x
6.0	12	72	91.5%	SYRS2060x012xxxx-x
5.0	17	85	91.5%	SYRS2050x017xxxx-x
3.3	25	82.5	91.0%	SYRS2033x025xxxx-x
3.3	15	49.5	91.0%	SYRS2033x015xxxx-x



ERS2 Eighth Brick Series

Part Numbering System

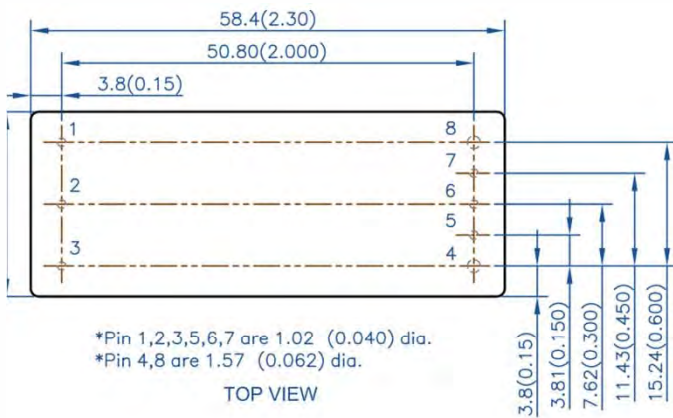
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
ERS	2	□□□	□	□□□	□	□	□	
	2: 18-36V	Unit: 0.1V Example: 120: 12V	P: Positive N: Negative	Unit: A Example: 010:10A	Regular K: 0.110" N: 0.145" R: 0.180"	0: Latch-off 2: Auto-restart	5: Open frame 6: Baseplate	



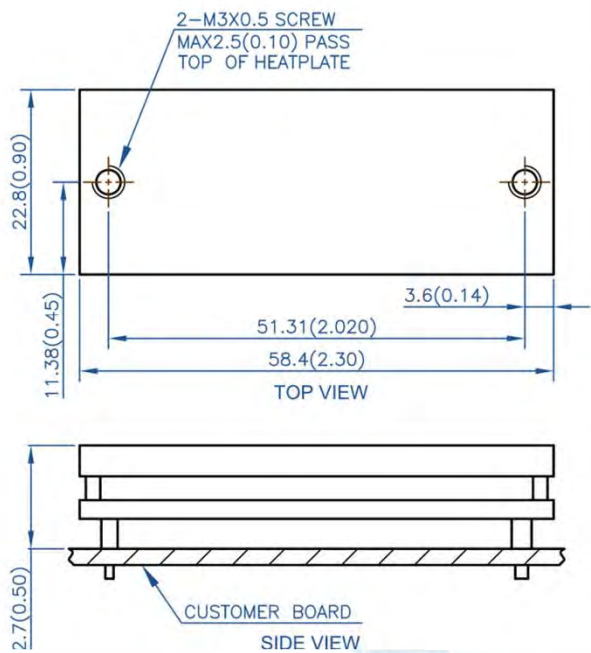
ERS2 Eighth Brick Series

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	SENSE(-)	Negative remote sense
6	TRIM	Output voltage adjust
7	SENSE(+)	Positive remote sense
8	Vo(+)	Positive output voltage



ERS2 Eighth Brick Series

15A/75W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
8.0	7	56	91.5%	ERS2080x007xxx
5.0	15	75	92.0%	ERS2050x015xxx
5.0	10	50	90.5%	ERS2050x010xxx

35A/140W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
48.0	2	96	90.5%	ERS2480x002xxx
28.0	5	140	92.0%	ERS2280x005xxx
28.0	4	112	92.5%	ERS2280x004xxx
15.0	10	150	92.5%	ERS2150x010xxx
15.0	8	120	92.5%	ERS2150x008xxx
12.0	10	120	92.0%	ERS2120x010xxx
8.0	15	120	90.5%	ERS2080x015xxx
5.0	25	125	91.5%	ERS2050x025xxx
3.3	35	115.5	91.0%	ERS2033x035xxx
3.3	25	82.5	91.0%	ERS2033x025xxx



EYRS2 Eighth Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix	Operating Temperature Grade (°C)*
EYRS	2	□□□	□	□□□	□	□	□	□	□
	2: 18-36V	Unit: 0.1V Example : 050: 5V	P: Positive N: Negative	Unit: A Example: 025:25A	Regular K:0.110" N:0.145" R:0.180"	0: Latch-off 2: Auto-restart	R: Potted, metal case S: Potted, metal shield, flange P: Potted, baseplate F: Potted, flange	Custom Code	H: -40 to +100 M: -55 to +100

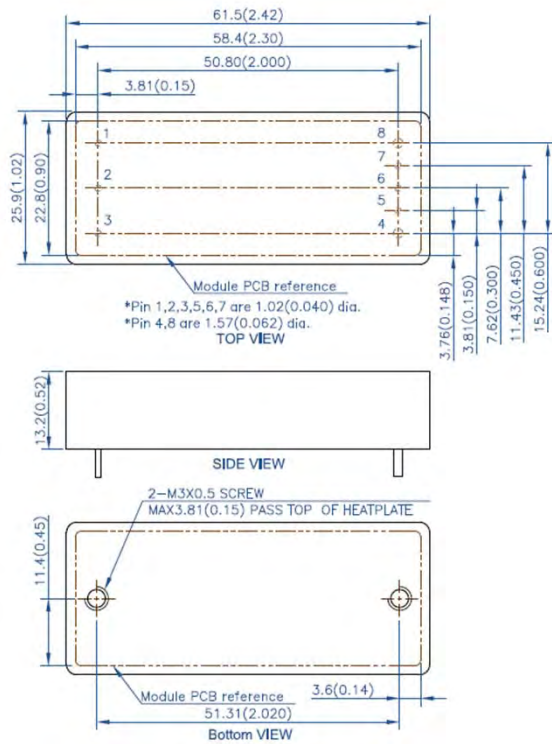
* Operating temperature is the temperature measured at the center of the baseplate (the top of the case).



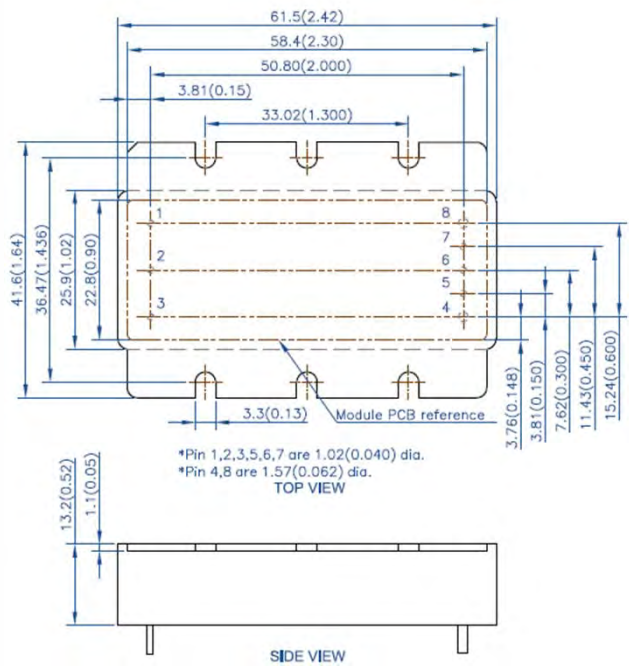
EYRS2 Eighth Brick Series

Mechanical Dimensions

Potted, baseplate



Potted, flange



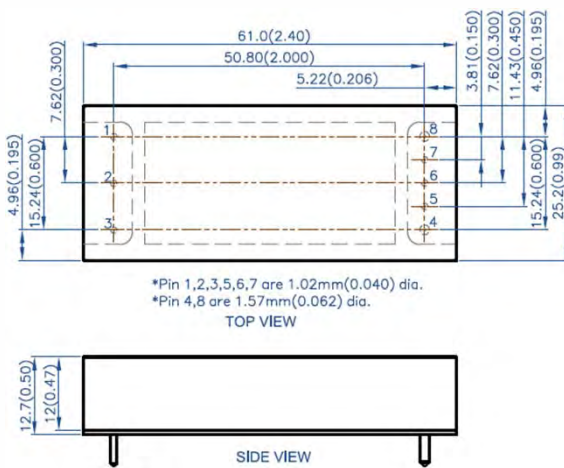
Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	SENSE(-)	Negative remote sense
6	TRIM	Output voltage adjust
7	SENSE(+)	Positive remote sense
8	Vo(+)	Positive output voltage



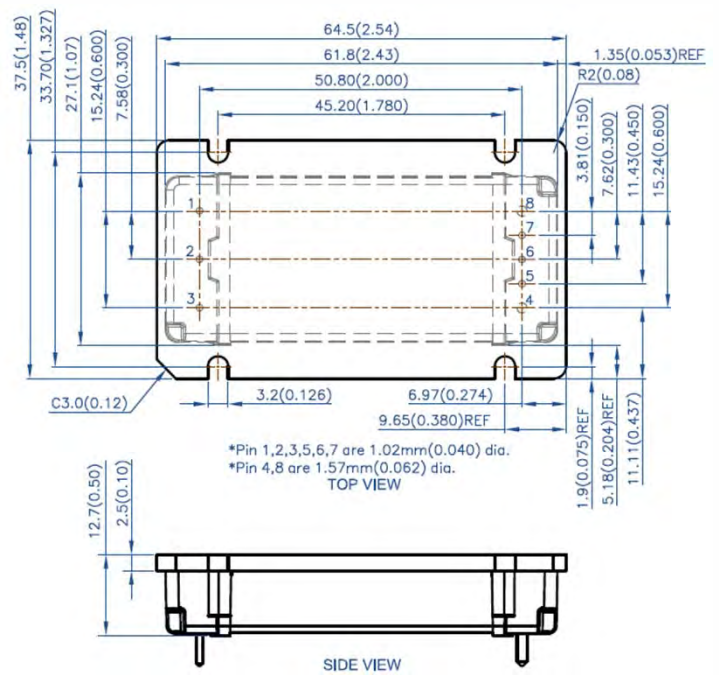
EYRS2 Eighth Brick Series

Mechanical Dimensions

Potted, metal case



Potted, metal shield, flange



35A/140W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
48.0	2	96	90.5%	EYRS2480x002xxxx-x
28.0	5	140	92.0%	EYRS2280x005xxxx-x
12.0	10	120	92.0%	EYRS2120x010xxxx-x
8.0	15	120	90.5%	EYRS2080x015xxxx-x
6.5	19	123.5	90.0%	EYRS2065x019xxxx-x
5.0	25	125	91.5%	EYRS2050x025xxxx-x
3.3	35	115.5	91.0%	EYRS2033x035xxxx-x



QRS2 Quarter Brick Series

Part Numbering System

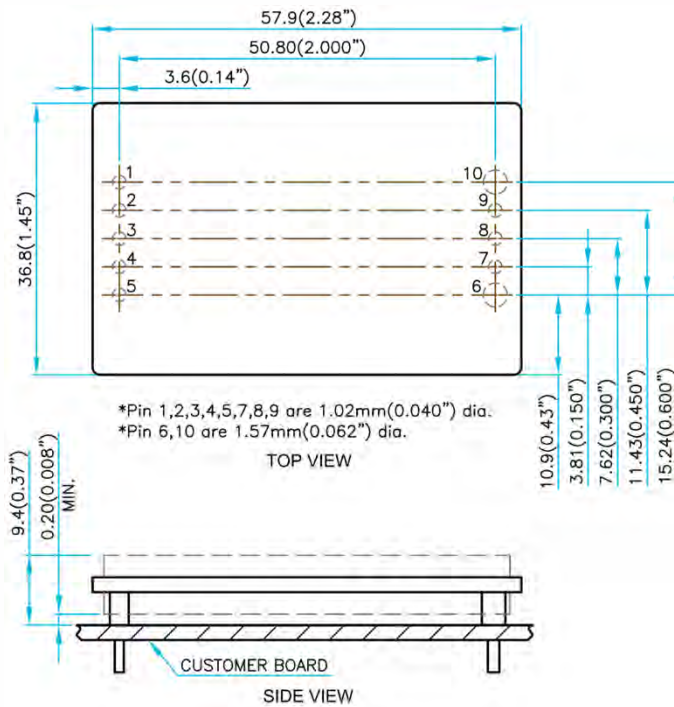
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
QRS	2	□□□	□	□□□	□	□	□	
	2: 18-36V	Unit: 0.1V Example: 120: 12V	P: Positive N: Negative	Unit: A Example: 007:7A	Regular K: 0.110" N: 0.145" R: 0.180"	0: Latch-off 1: Parallel 2: Auto-restart	5: Open frame 6: Baseplate 8: Baseplate with case pin	



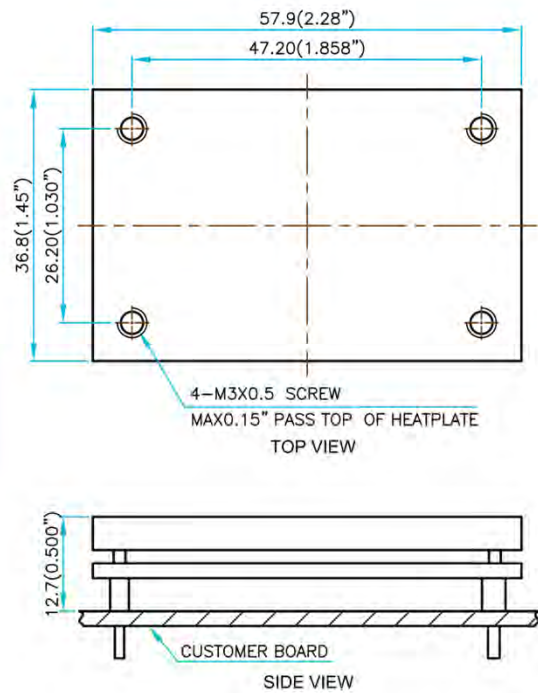
QRS2 Quarter Brick Series

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	PARALLEL(Opt.)	Optional parallel
3	ON/OFF	Remote control
4	CASE(Opt.)	Optional case
5	Vin(-)	Negative input voltage
6	Vo(-)	Negative output voltage
7	SENSE(-)	Negative remote sense
8	TRIM	Output voltage adjust
9	SENSE(+)	Positive remote sense
10	Vo(+)	Positive output voltage



QRS2 Quarter Brick Series

25A/85W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0	7	84	91.5%	QRS2120x007xxx
5.0	17	85	91.0%	QRS2050x017xxx
3.3	25	82.5	90.0%	QRS2033x025xxx

35A/125W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0	10	120	92.0%	QRS2120x010xxx
5.0	25	125	90.0%	QRS2050x025xxx
3.3	35	115.5	90.0%	QRS2033x035xxx



QPS2 Quarter Brick Series

Part Numbering System

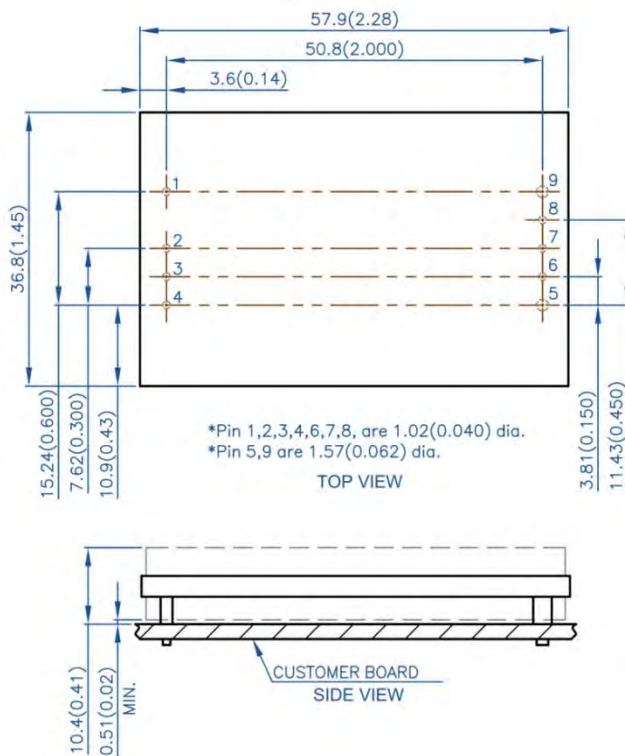
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
QPS	2	□□□	□	□□□	□	□	□	
	2: 18-36V	Unit: 0.1V Example: 280: 28V	P: Positive N: Negative	Unit: A Example: 005:5A	Regular K: 0.110" N: 0.145" R: 0.180"	0: Latch-off 2: Auto-restart	5: Open frame 6: Baseplate 8: case pin with baseplate	



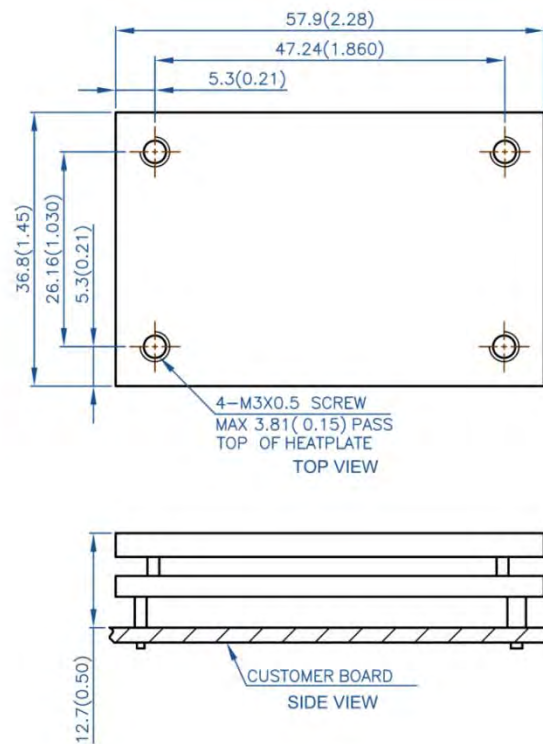
QPS2 Quarter Brick Series

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	OPTIONAL CASE	Optional case
4	Vin(-)	Negative input voltage
5	Vo(-)	Negative output voltage
6	SENSE(-)	Negative remote sense
7	TRIM	Output voltage adjust
8	SENSE(+)	Positive remote sense
9	Vo(+)	Positive output voltage



QPS2 Quarter Brick Series

25A/140W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
28.0	5	140	91.5%	QPS2280x005xxx
5.0	25	125	91.0%	QPS2050x025xxx

60A/204W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
48.0	4	192	91.0%	QPS2480x004xxx
28.0	7.5	210	92.0%	QPS2280x7A5xxx
28.0	7	196	92.0%	QPS2280x007xxx
12.0	17	204	93.0%	QPS2120x017xxx
8.0	25	200	92.0%	QPS2080x025xxx
6.0	33	198	90.5%	QPS2060x033xxx
5.0	40	200	92.0%	QPS2050x040xxx
3.3	60	198	91.5%	QPS2033x060xxx



QYPS2 Quarter Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix	Operating Temperature Grade (°C)*
QYPS	2	□□□	□	□□□	□	□	□	□	□
	2: 18-36V	Unit: 0.1V Example: 050: 5V	P: Positive N: Negative	Unit: A Example: 040: 40A	Regular K: 0.110" N: 0.145" R: 0.180"	0: Latch-off 2: Auto-restart	R: Potted, metal case S: Potted, metal shield, flange P: Potted, baseplate F: Potted, flange	Custom Code	H: -40 to +100 M: -55 to +100

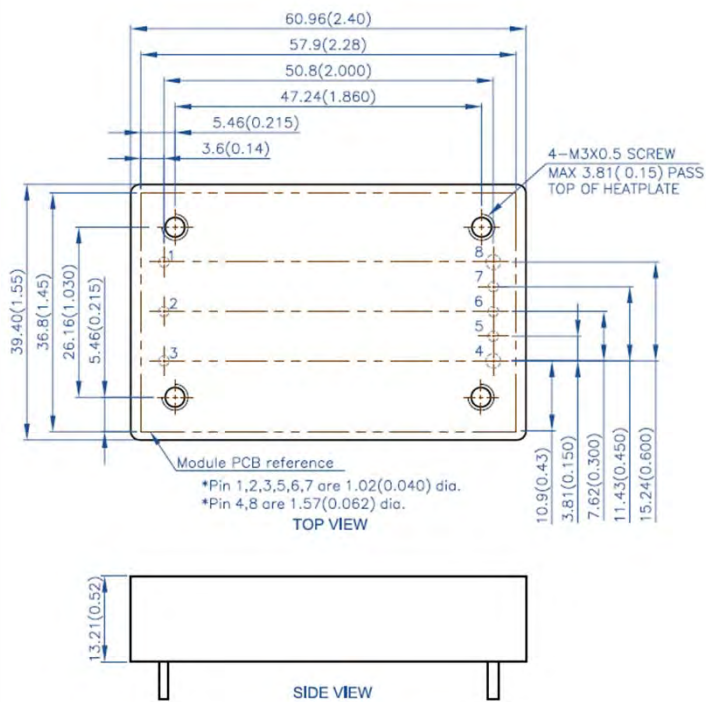
* Operating temperature is the temperature measured at the center of the baseplate (the top of the case).



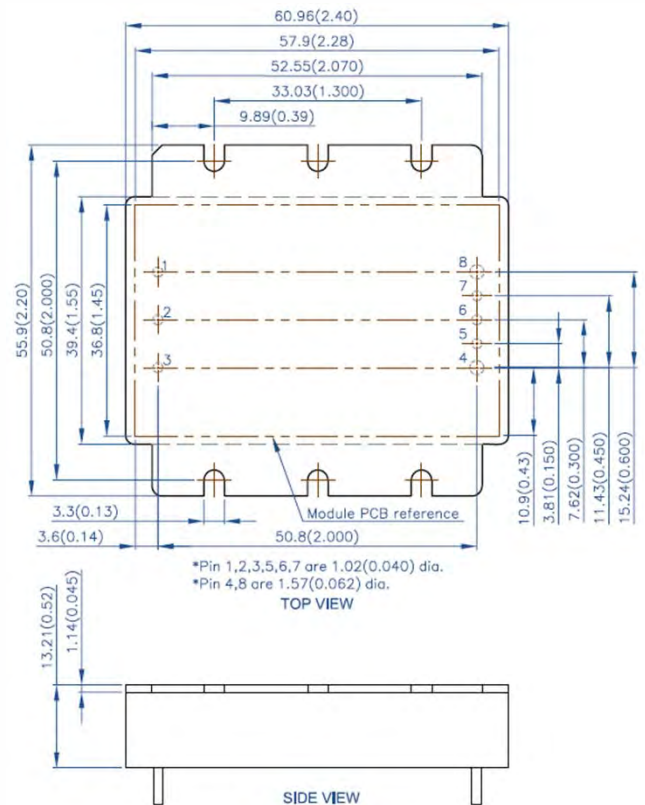
QYPS2 Quarter Brick Series

Mechanical Dimensions

Potted, baseplate



Potted, flange



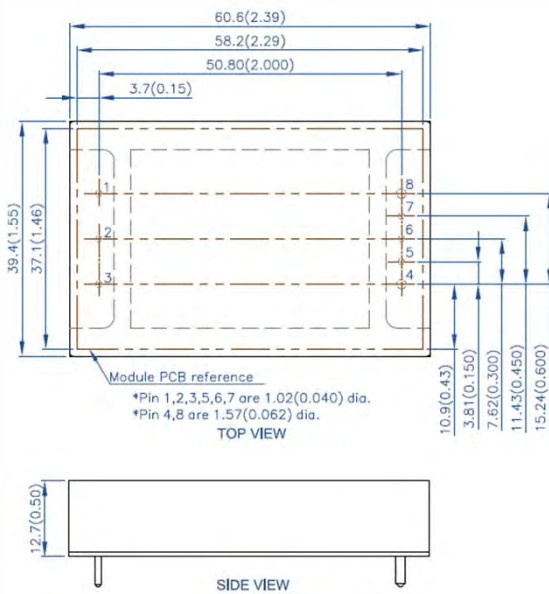
Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	SENSE(-)	Negative remote sense
6	TRIM	Output voltage adjust
7	SENSE(+)	Positive remote sense
8	Vo(+)	Positive output voltage



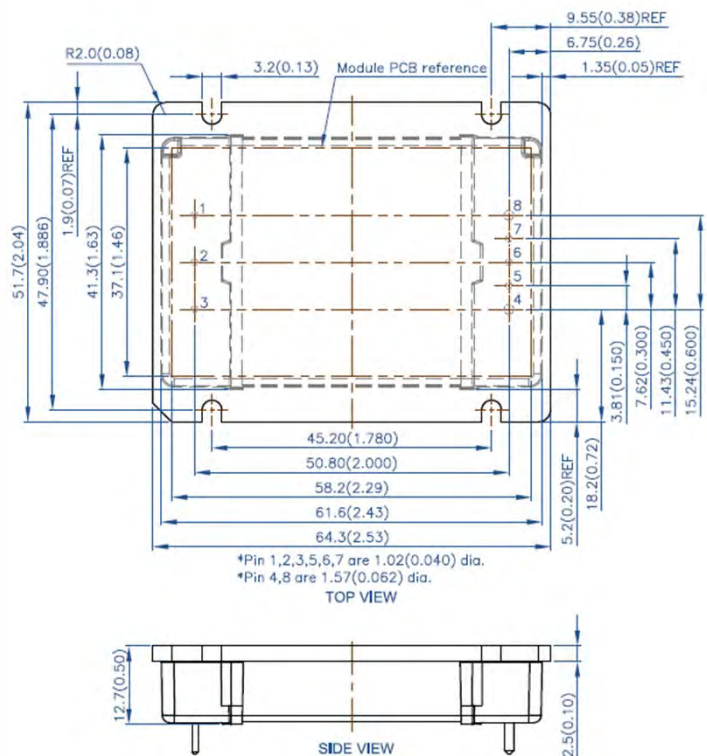
QYPS2 Quarter Brick Series

Mechanical Dimensions

Potted, metal case



Potted, metal shield, flange



60A/204W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
48.0	4	192	91.0%	QYPS2480x004xxxx-x
28.0	7.5	210	92.0%	QYPS2280x007xxxx-x
12.0	17	204	93.0%	QYPS2120x017xxxx-x
8.0	25	200	92.0%	QYPS2080x025xxxx-x
6.0	33	198	90.5%	QYPS2060x033xxxx-x
5.0	40	200	92.0%	QYPS2050x040xxxx-x
3.3	60	198	91.5%	QYPS2033x060xxxx-x



QBC2 Quarter Brick Series

Part Numbering System

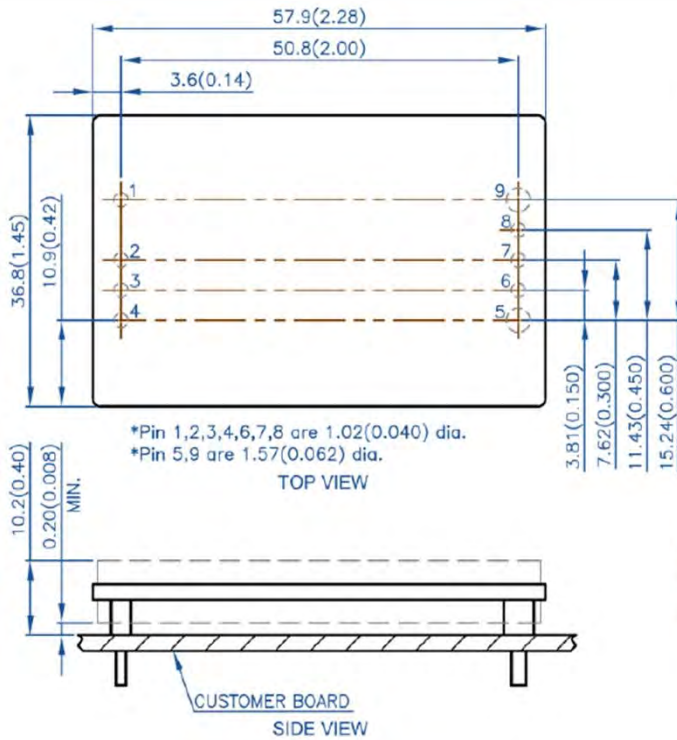
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
QBC	2	□□□	□	□□□	□	□	□	
	2: 18-36V	Unit: 0.1V Example: 050: 5V	P: Positive N: Negative	Unit: A Example: 050: 50A	Regular K: 0.110" N: 0.145" R: 0.180"	0: Latch-off 2: Auto-restart	5: Open-frame 6: Baseplate	



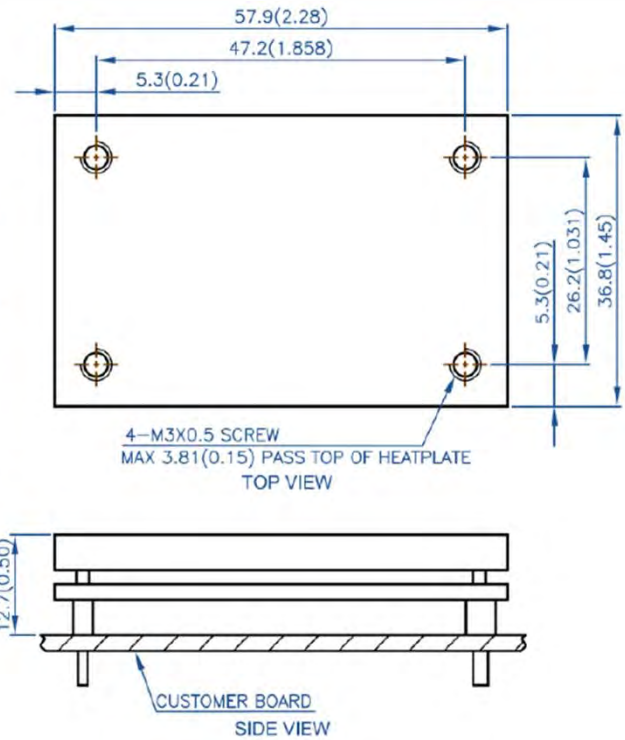
QBC2 Quarter Brick Series

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	OPTIONAL CASE	Optional case
4	Vin(-)	Negative input voltage
5	Vo(-)	Negative output voltage
6	SENSE(-)	Negative remote sense
7	TRIM	Output voltage adjust
8	SENSE(+)	Positive remote sense
9	Vo(+)	Positive output voltage

50A/360W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0	30	360	91.5%	QBC2120x030xxx
12.0	25	300	92.5%	QBC2120x025xxx
5.0	50	250	91.5%	QBC2050x050xxx



QYBC2 Quarter Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix	Operating Temperature Grade (°C)*
QYBC	2	□□□	□	□□□	□	□	□	□	□
	2: 18-36V	Unit: 0.1V Example: 050: 5V	P: Positive N: Negative	Unit: A Example: 050:50A	Regular K:0.110" N:0.145" R:0.180"	0: Latch-off 2: Auto-restart	R: Potted, metal case S: Potted, metal shield, flange P: Potted, baseplate F: Potted, flange	Custom Code	H: -40 to +100 M: -55 to +100

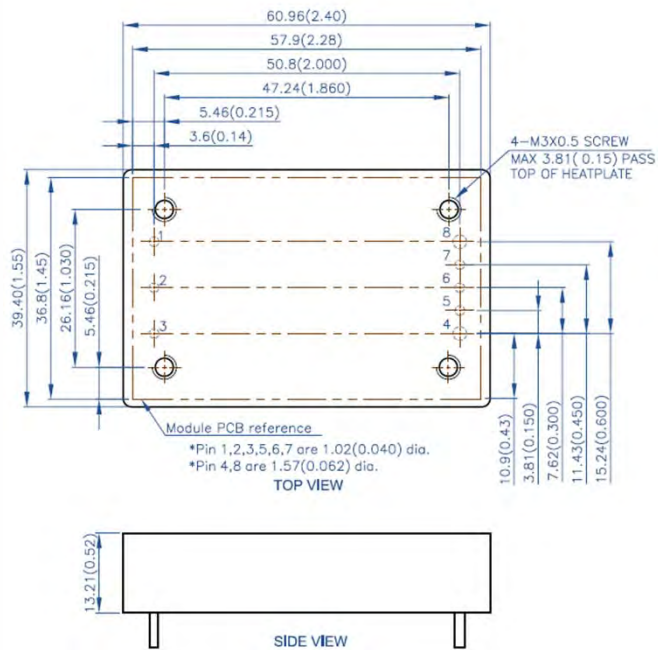
* Operating temperature is the temperature measured at the center of the baseplate (the top of the case).



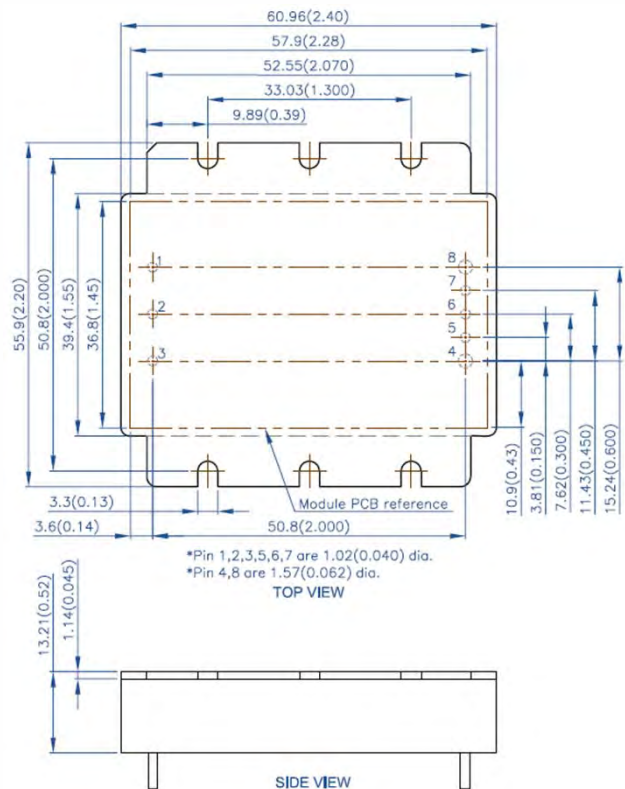
QYBC2 Quarter Brick Series

Mechanical Dimensions

Potted, baseplate



Potted, flange



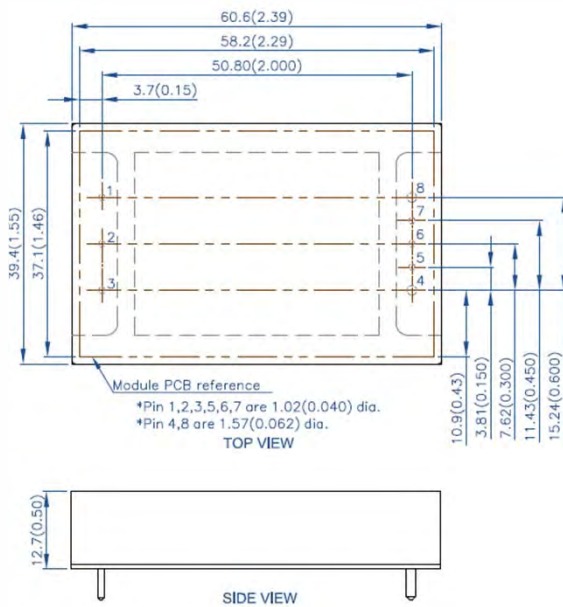
Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	SENSE(-)	Negative remote sense
6	TRIM	Output voltage adjust
7	SENSE(+)	Positive remote sense
8	Vo(+)	Positive output voltage



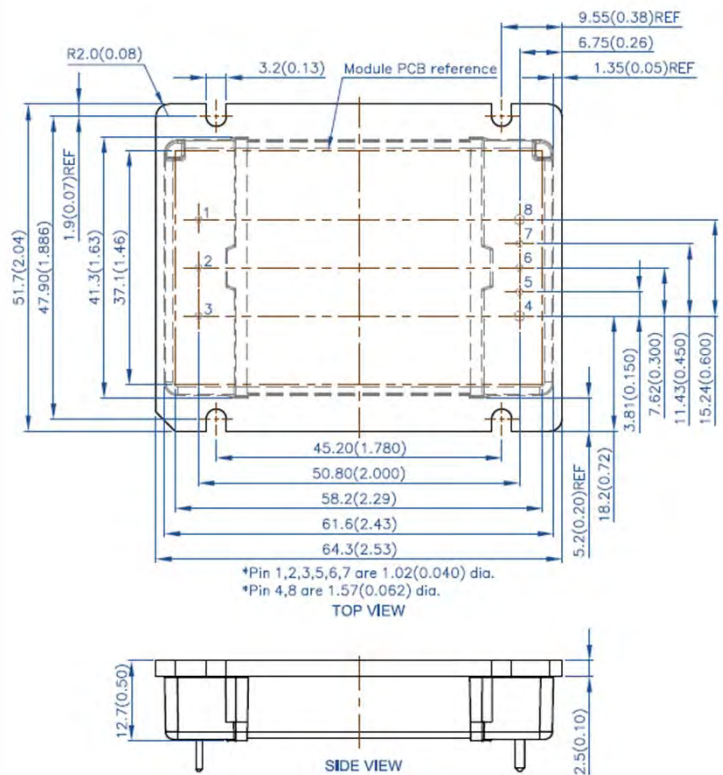
QYBC2 Quarter Brick Series

Mechanical Dimensions

Potted, metal case



Potted, metal shield, flange



50A/300W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0	25	300	92.5%	QYBC2120x025xxxx-x
5.0	50	250	91.5%	QYBC2050x050xxxx-x



HPS2 Half Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
HPS	2	□□□	□	□□□	□	□	□	
	2: 18-36V	Unit: 0.1V Example: 120: 12V	P: Positive N: Negative	Unit: A Example: 038:38A	Regular K: 0.110" N: 0.145" R: 0.180"	0: I-share/latch off 2: I-share/auto-restart 5*: No I-share/latch off 7*: No I-share/auto-restart	5: Open-frame 6: Baseplate	

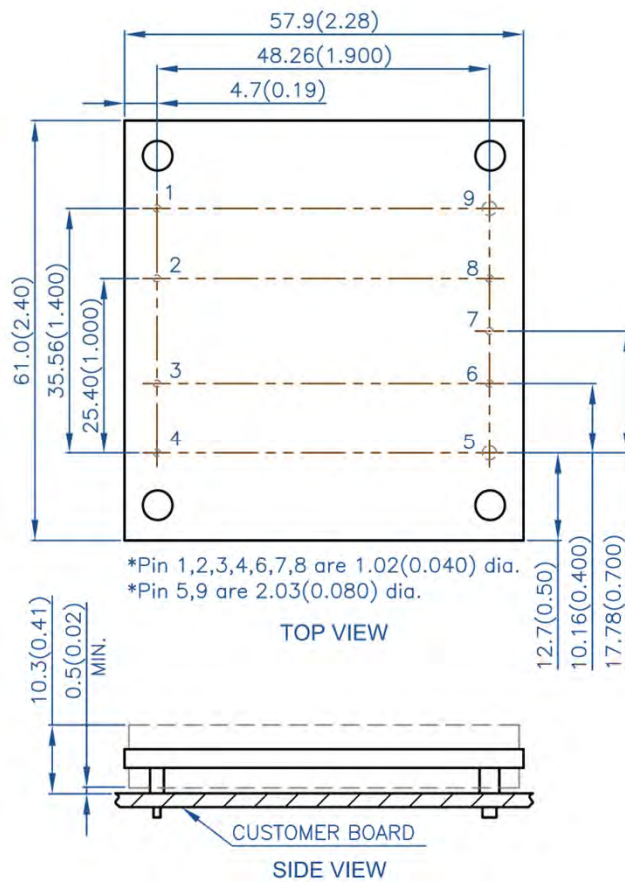
**When "5" or "7" is selected, the "Share" pin (Pin 3) does not exist.*



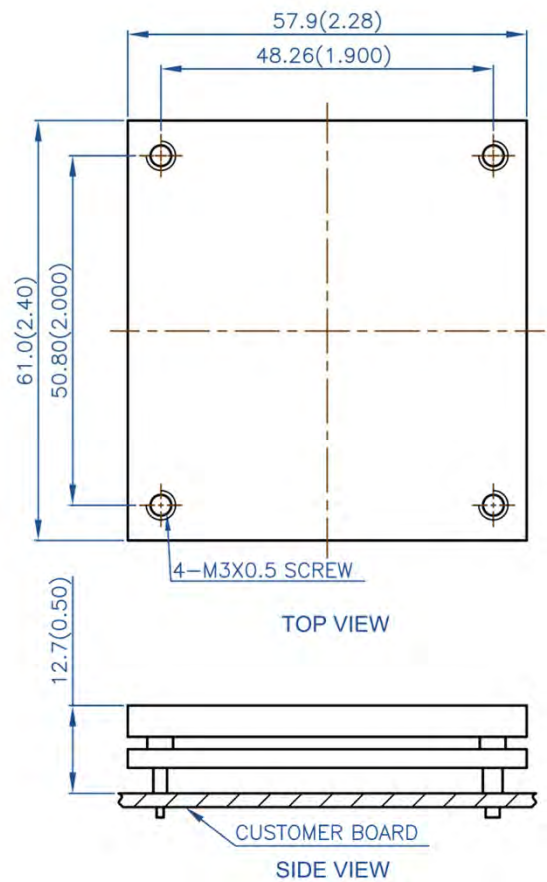
HPS2 Half Brick Series

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Optional Share	Current share
4	Vin(-)	Negative input voltage
5	Vo(-)	Negative output voltage
6	SENSE(-)	Negative remote sense
7	TRIM	Output voltage adjust
8	SENSE(+)	Positive remote sense
9	Vo(+)	Positive output voltage





HPS2 Half Brick Series

80A/600W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
48.0	10.5	504	91.0%	HPS2480x010xxx
48.0	7.2	345.6	93.0%	HPS2480x007xxx
28.0	17	476	91.0%	HPS2280x017xxx
12.0	50	600	92.0%	HPS2120x050xxx
12.0	38	456	91.0%	HPS2120x038xxx
8.0	50	400	93.0%	HPS2080x050xxx
5.0	80	400	92.0%	HPS2050x080xxx



HYPS2 Half Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix	Operating Temperature Grade (°C)*
HYPS	2	□□□	□	□□□	□	□	□	□	□
	2: 18-36V	Unit: 0.1V Example: 050: 5V	P: Positive N: Negative	Unit: A Example: 080: 80A	Regular K:0.110" N:0.145" R:0.180"	0: Latch-off 2: Auto-restart	R: Potted, metal case P: Potted, baseplate F: Potted, flange	custom code	H: -40 to +100 M: -55 to +100

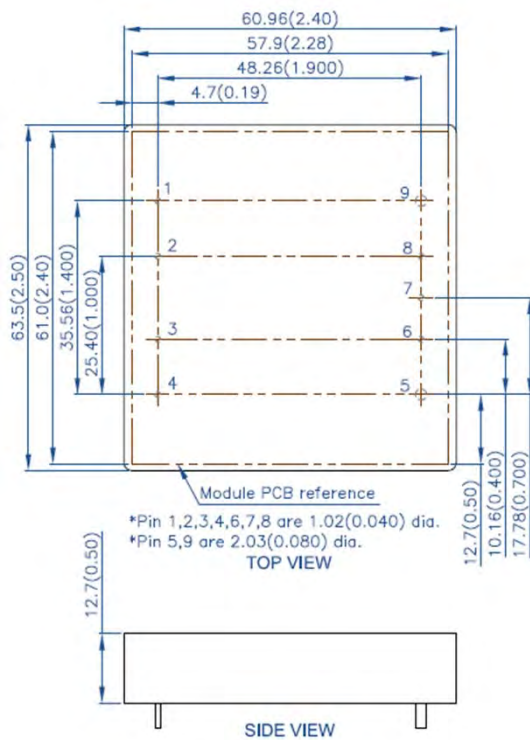
* Operating temperature is the temperature measured at the center of the baseplate (the top of the case).



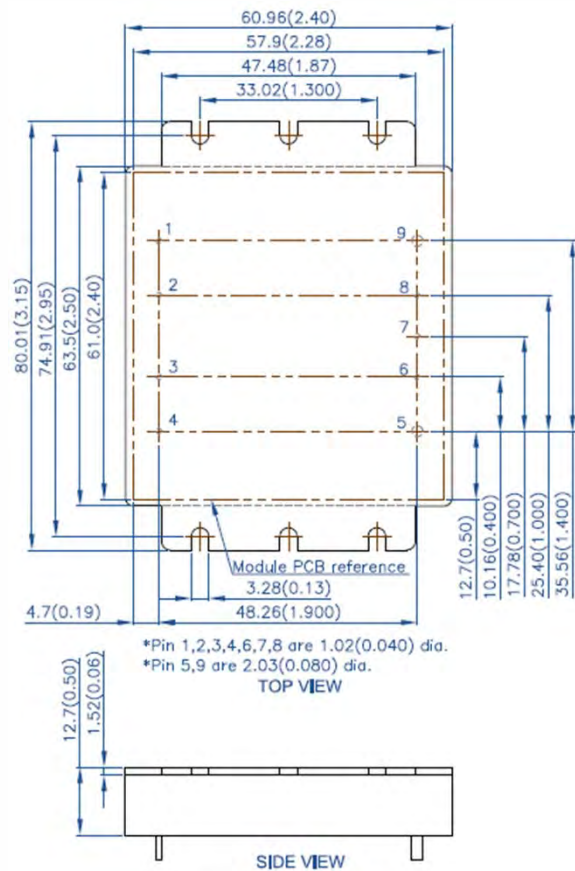
HYPS2 Half Brick Series

Mechanical Dimensions

Potted, baseplate



Potted, flange



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Optional Share	Current share
4	Vin(-)	Negative input voltage
5	Vo(-)	Negative output voltage
6	SENSE(-)	Negative remote sense
7	TRIM	Output voltage adjust
8	SENSE(+)	Positive remote sense
9	Vo(+)	Positive output voltage



Potted, metal case



Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
48.0	10.5	504	91.5%	HYPs2480x010xxxx-x
48.0	7	336	93.0%	HYPs2480x007xxxx-x
28.0	17	476	91.0%	HYPs2280x017xxxx-x
12.0	50	600	92.0%	HYPs2120x050xxxx-x
8.0	50	400	88.5%	HYPs2080x050xxxx-x
5.0	80	400	92.0%	HYPs2050x080xxxx-x
5.0	65	325	92.0%	HYPs2050x065xxxx-x



SYPS5 Sixteenth Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix	Operating Temperature Grade (°C)*
SYPS	5	□□□	□	□□□	□	□	□	□	□
	5: 9-75V	Unit: 0.1V Example: 120: 12V	P: Positive N: Negative	Unit: A Example: 005:5A	Regular N: 0.145" R: 0.180" J: 0.220"	0: Latch-off 2: Auto-restart	R: Potted, metal case S: Potted, metal shield, flange P: Potted, baseplate F: Potted, flange	Custom Code	H: -40 to +100 M: -55 to +100

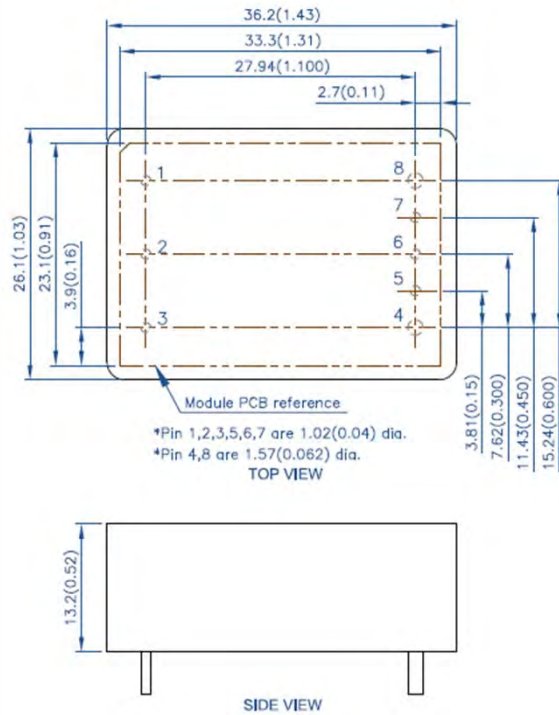
* Operating temperature is the temperature measured at the center of the baseplate (the top of the case).



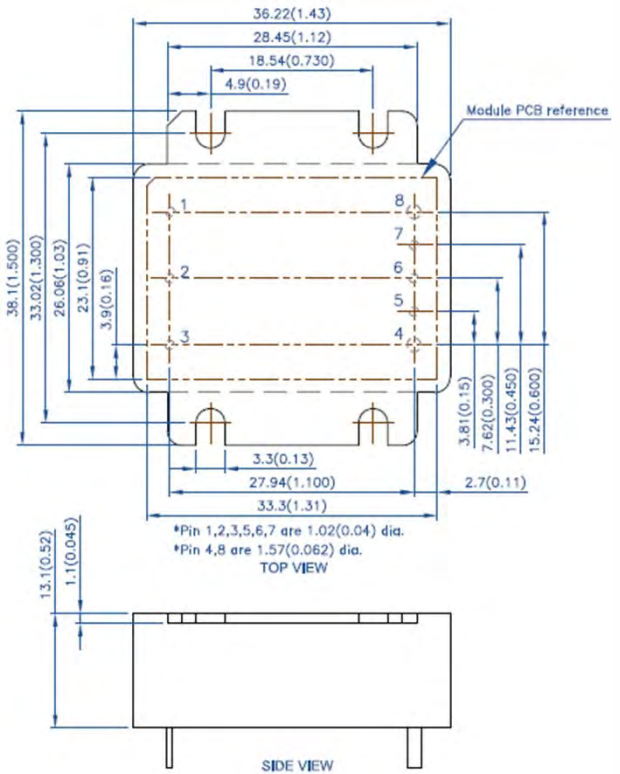
SYPS5 Sixteenth Brick Series

Mechanical Dimensions

Regular packing



Flanged packing



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	SENSE(-)	Negative remote sense
6	TRIM	Output voltage adjust
7	SENSE(+)	Positive remote sense
8	Vo(+)	Positive output voltage

6A/30W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0	2	24	90.0%	SYRS5120x002xxxx-x
5.0	6	30	90.5%	SYRS5050x006xxxx-x



QYPS5 Quarter Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix	Operating Temperature Grade (°C)*
QYPS	5	□□□	□	□□□	□	□	□	□	□
	5: 9-75V	Unit: 0.1V Example: 120: 12V	P: Positive N: Negative	Unit: A Example: 005:5A	Regular N: 0.145" R: 0.180" J: 0.220"	0: Latch-off 2: Auto-restart	R: Potted, metal case S: Potted, metal shield, flange P: Potted, baseplate F: Potted, flange	Custom Code	H: -40 to +100 M: -55 to +100

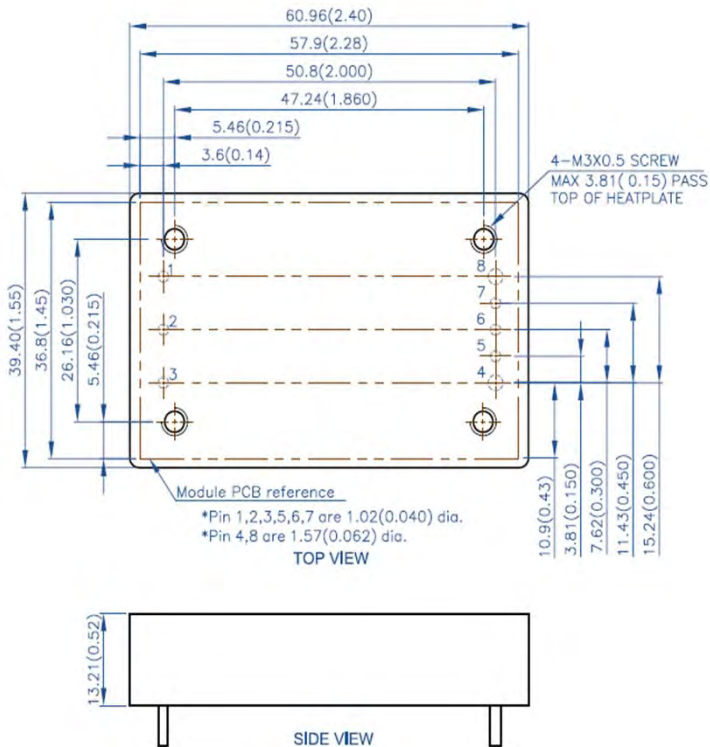
* Operating temperature is the temperature measured at the center of the baseplate (the top of the case).



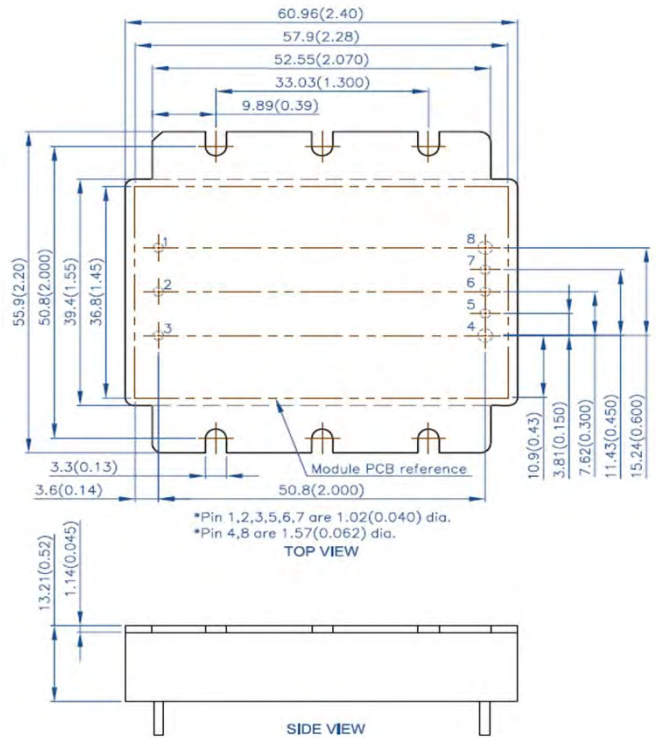
QYPS5 Quarter Brick Series

Mechanical Dimensions

Regular packing



Flanged packing



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	SENSE(-)	Negative remote sense
6	TRIM	Output voltage adjust
7	SENSE(+)	Positive remote sense
8	Vo(+)	Positive output voltage

10A/150W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
15.0	10	150	93.0%	QYPS5120x010xxxx-x
12.0	7	84	92.0%	QYPS5120x007xxxx-x
12.0	10	120	93.0%	QYPS5120x010xxxx-x



MYRS1 Thirty-second Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix	Operating Temperature Grade (°C)*
MYRS	1	□□□	□	□□□	□	□	□	□	□
	2:9-36V	Unit: 0.1V Example: 050: 5V	P: Positive N: Negative	Unit: A Example: 005:5A	Regular K: 0.110" N: 0.145" R: 0.180"	0: Latch-off 2: Auto-restart	R: Potted, metal case S: Potted, metal shield, flange	Custom Code	H: -40 to +100 M: -55 to +100

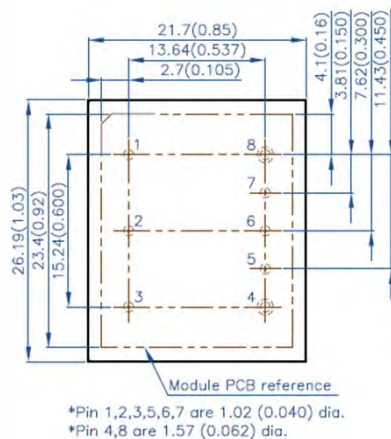
* Operating temperature is the temperature measured at the center of the baseplate (the top of the case).



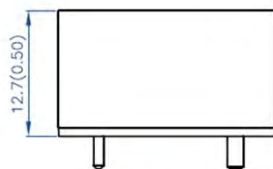
MYRS1 Thirty-second Brick Series

Mechanical Dimensions

Potted, metal case

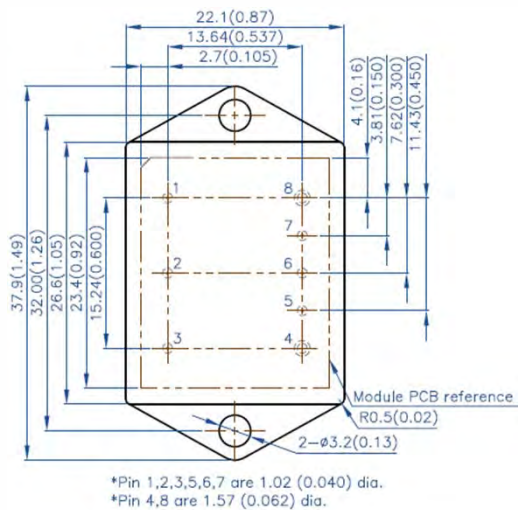


TOP VIEW

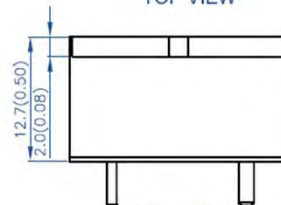


SIDE VIEW

Potted, metal shield, flange



TOP VIEW



SIDE VIEW

Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	SENSE(-)	Negative remote sense
6	TRIM	Output voltage adjust
7	SENSE(+)	Positive remote sense
8	Vo(+)	Positive output voltage



MYRS1 Thirty-second Brick Series

7A/25W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
28.0	1	28	84.0%	MYRS1280x001xxxx-x
12.0	2	24	84.0%	MYRS1120x002xxxx-x
8.0	3	24	85.0%	MYRS1080x003xxxx-x
5.0	5	25	85.0%	MYRS1050x005xxxx-x
5.0	3	15	85.0%	MYRS1050x003xxxx-x
3.3	7	23.1	85.0%	MYRS1033x007xxxx-x



SYRS1 Sixteenth Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix	Operating Temperature Grade (°C)*
SYRS	1	□□□	□	□□□	□	□	□		□
	1: 9-36V	Unit: 0.1V Example: 033: 3.3V	P: Positive N: Negative	Unit: A Example: 015:15A	Regular K:0.110" N:0.145" R:0.180"	0: Latch-off 2: Auto-restart	R: Potted, metal case S: Potted, metal shield, flange P: Potted, baseplate F: Potted, flange	Custom Code	H: -40 to +100 M: -55 to +100

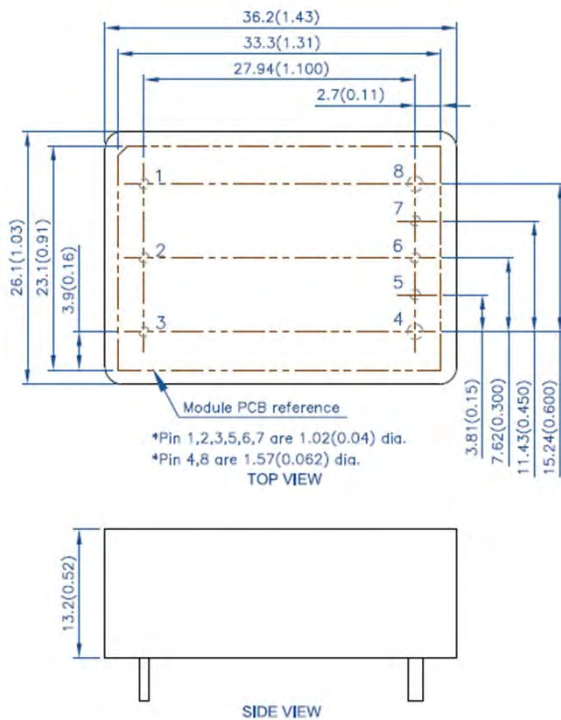
* Operating temperature is the temperature measured at the center of the baseplate (the top of the case).



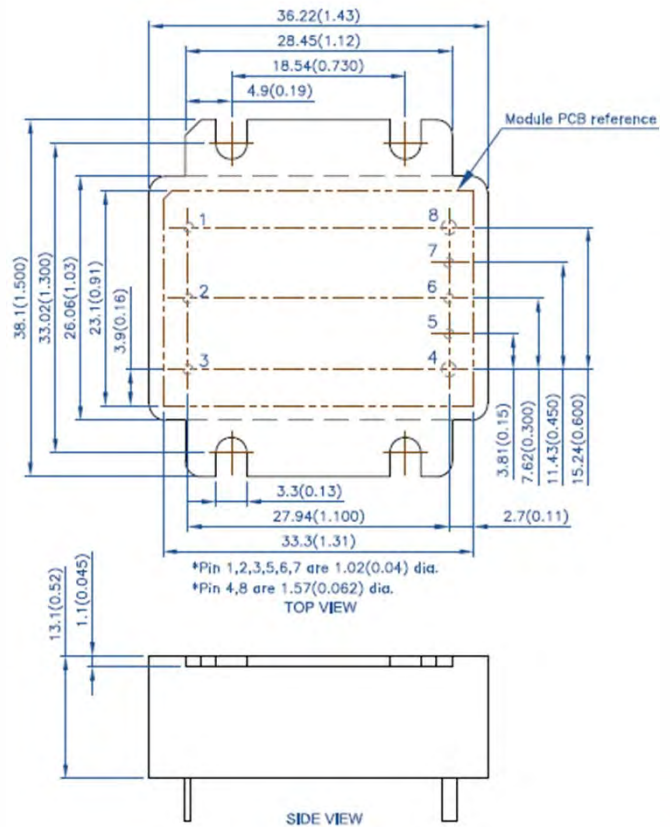
SYRS1 Sixteenth Brick Series

Mechanical Dimensions

Potted, baseplate



Potted, flange



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	SENSE(-)	Negative remote sense
6	TRIM	Output voltage adjust
7	SENSE(+)	Positive remote sense
8	Vo(+)	Positive output voltage



SYRS1 Sixteenth Brick Series

10A/40W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
15.0	2	30	91.0%	SYRS1150x002xxxx-x
12.0	3	36	92.0%	SYRS1120x003xxxx-x
8.0	4	32	91.5%	SYRS1080x004xxxx-x
6.0	5	30	91.5%	SYRS1060x005xxxx-x
5.0	8	40	91.0%	SYRS1050x008xxxx-x
3.3	10	33	90.0%	SYRS1033x010xxxx-x

15A/60W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
15.0	4	60	90.0%	SYRS1150x004xxxx-x
12.0	5	60	91.5%	SYRS1120x005xxxx-x
8.0	7	56	91.0%	SYRS1080x007xxxx-x
5.0	12	60	90.5%	SYRS1050x012xxxx-x
3.3	15	49.5	89.0%	SYRS1033x015xxxx-x



EYRS1 Eighth Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix	Operating Temperature Grade (°C)*
EYRS	1	□□□	□	□□□	□	□	□	□	□
	1: 9-36V	Unit: 0.1V Example : 050: 5V	P: Positive N: Negative	Unit: A Example: 004:4A	Regular K:0.110" N:0.145" R:0.180"	0: Latch-off 2: Auto-restart	R: Potted, metal case S: Potted, metal shield, flange P: Potted, baseplate F: Potted, flange	Custom Code	H: -40 to +100 M: -55 to +100

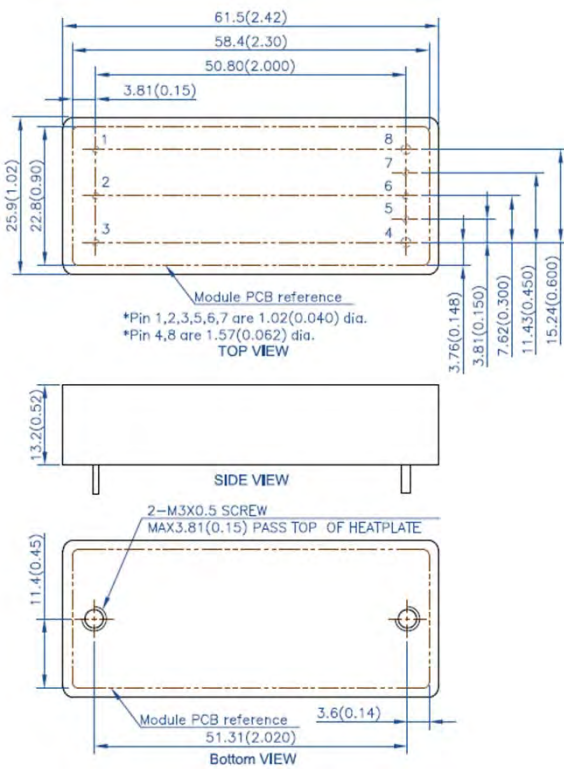
* Operating temperature is the temperature measured at the center of the baseplate (the top of the case).



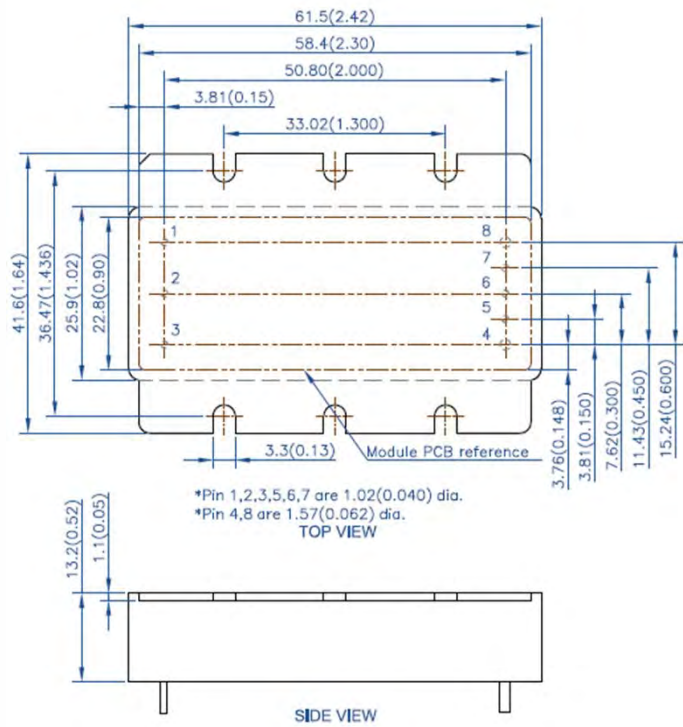
EYRS1 Eighth Brick Series

Mechanical Dimensions

Potted, baseplate



Potted, flange



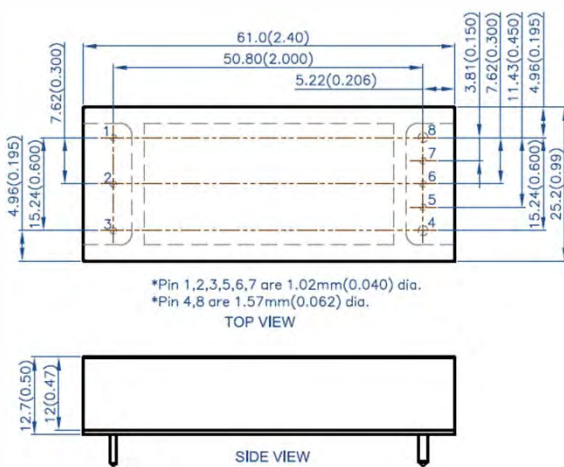
Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	SENSE(-)	Negative remote sense
6	TRIM	Output voltage adjust
7	SENSE(+)	Positive remote sense
8	Vo(+)	Positive output voltage



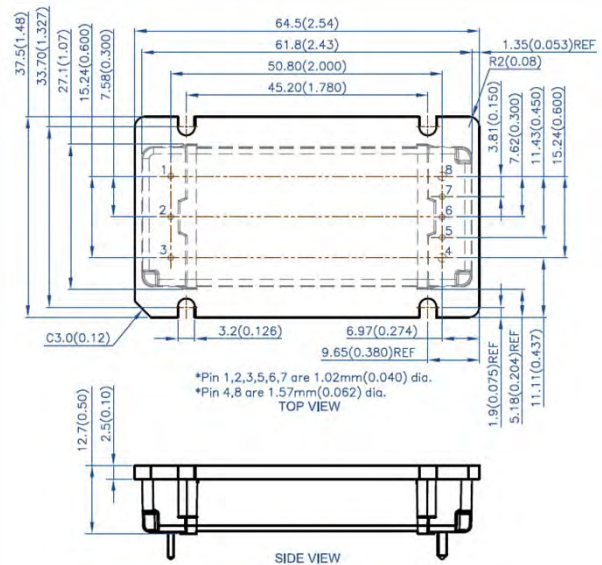
EYRS1 Eighth Brick Series

Mechanical Dimensions

Potted, metal case



Potted, metal shield, flange



20A/224W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
28.0	8	224	92.0%	EYRS1150x008xxxx-x
28.0	5	140	92.0%	EYRS1280x005xxxx-x
28.0	3	84	92.0%	EYRS1280x003xxxx-x
15.0	5	75	92.0%	EYRS1150x005xxxx-x
12.0	10	120	92.0%	EYRS1120x010xxxx-x
5.0	20	100	91.0%	EYRS1050x020xxxx-x



QYPS1 Quarter Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix	Operating Temperature Grade (°C)*
QYPS	1	□□□	□	□□□	□	□	□	□	□
	1: 9-36V	Unit: 0.1V Example: 033: 3.3V	P: Positive N: Negative	Unit: A Example: 030: 30A	Regular K:0.110" N:0.145" R:0.180"	0: Latch-off 2: Auto-restart	R: Potted, metal case S: Potted, metal shield, flange P: Potted, baseplate F: Potted, flange	Custom Code	H: -40 to +100 M: -55 to +100

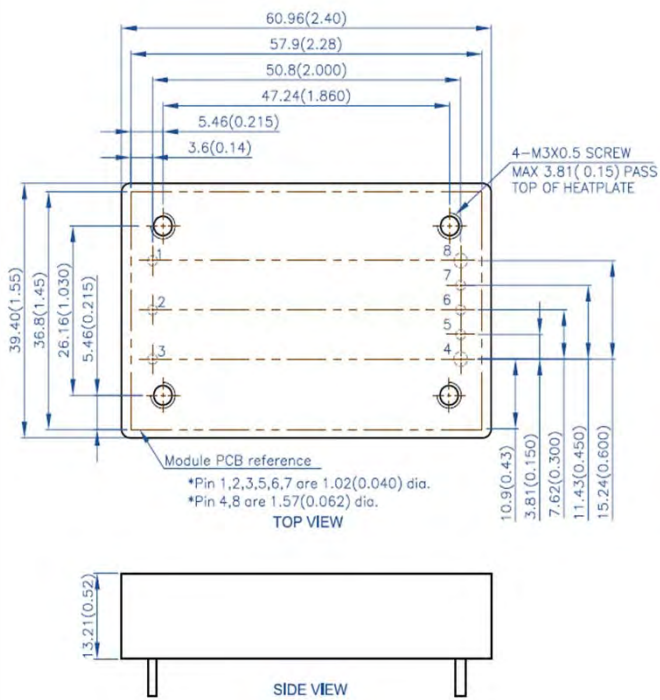
* Operating temperature is the temperature measured at the center of the baseplate (the top of the case).



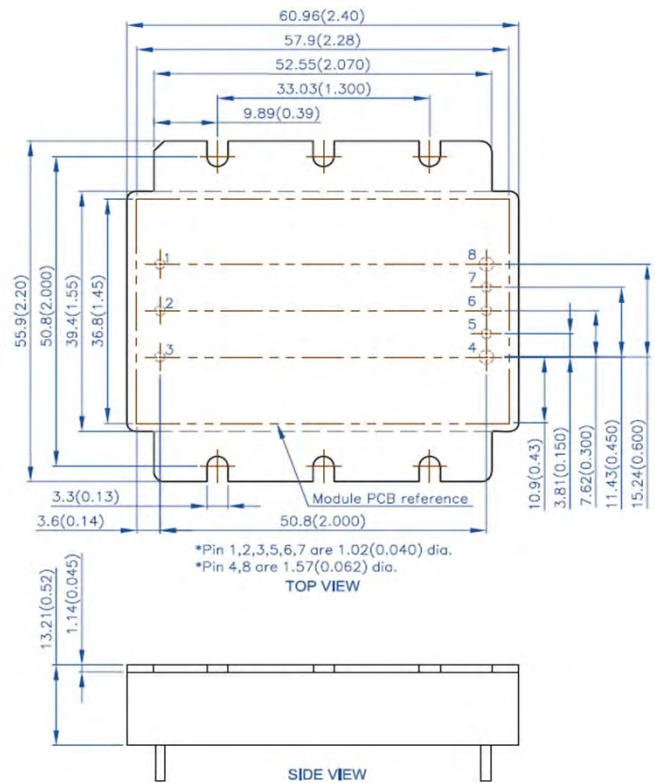
QYPS1 Quarter Brick Series

Mechanical Dimensions

Potted, baseplate



Potted, flange

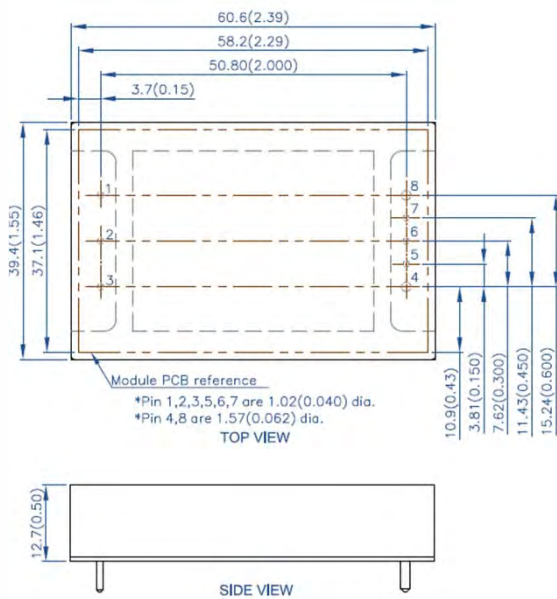


Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	Vin(-)	Negative input voltage
4	Vo(-)	Negative output voltage
5	SENSE(-)	Negative remote sense
6	TRIM	Output voltage adjust
7	SENSE(+)	Positive remote sense
8	Vo(+)	Positive output voltage

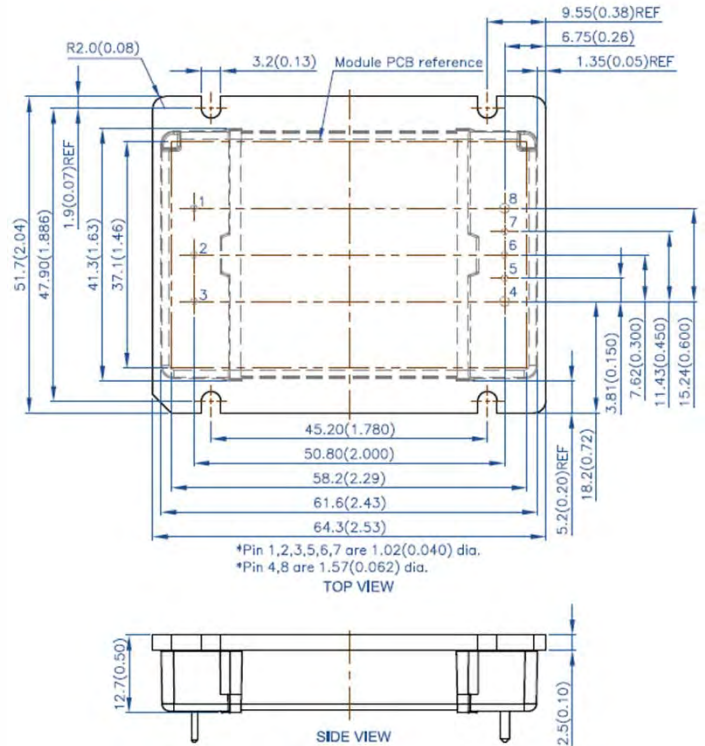


QYPS1 Quarter Brick Series

Potted, metal case



Potted, metal shield, flange



40A/200W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
56.0	2	112	90.0%	QYPS1560x002xxxx-x
48.0	3	144	89.0%	QYPS1480x003xxxx-x
12.0	12	144	93.0%	QYPS1120x012xxxx-x
5.0	40	200	89.5%	QYPS1050x040xxxx-x
5.0	30	150	90.5%	QYPS1050x030xxxx-x
3.3	30	99	92.0%	QYPS1033x030xxxx-x



HYPS1 Half Brick Series

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix	Operating Temperature Grade (°C)*
HYPS	1	□□□	□	□□□	□	□	□	□	□
	1: 9-36V	Unit: 0.1V Example: 033: 3.3V	P: Positive N: Negative	Unit: A Example: 030: 30A	Regular N: 0.145" R: 0.180" J: 0.220"	0: Latch-off 2: Auto-restart	P: Regular F: Flanged	Special or customized code	H: -40 to +100 M: -55 to +100

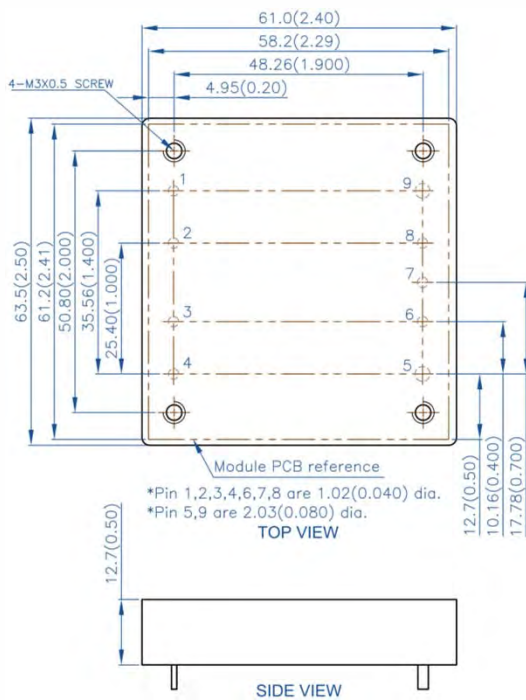
* Operating temperature is the temperature measured at the center of the baseplate (the top of the case).



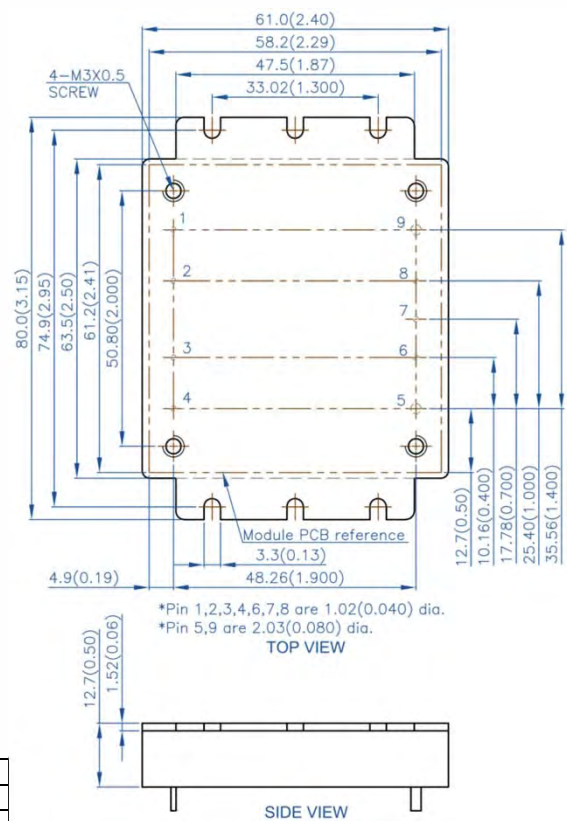
HYPS1 Half Brick Series

Mechanical Dimensions

Regular packing



Flanged packing



Pin	Name	Function
1	Vin(+)	Positive input voltage
2	ON/OFF	Remote control
3	SHARE	Optional share
4	Vin(-)	Negative input voltage
5	Vo(-)	Negative output voltage
6	SENSE(-)	Negative remote sense
7	TRIM	Output voltage adjust
8	SENSE(+)	Positive remote sense
9	Vo(+)	Positive output voltage

10A/280W

Output Voltage(V)	Output Current(A)	Output Power(W)	Efficiency	Model
12.0	20	240	91.0%	HYPS1120x020xxxx-x
5.0	50	250	89.0%	HYPS1050x050xxxx-x

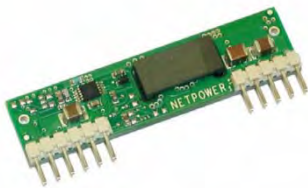


NAT0 –POL Converters

Part Numbering System

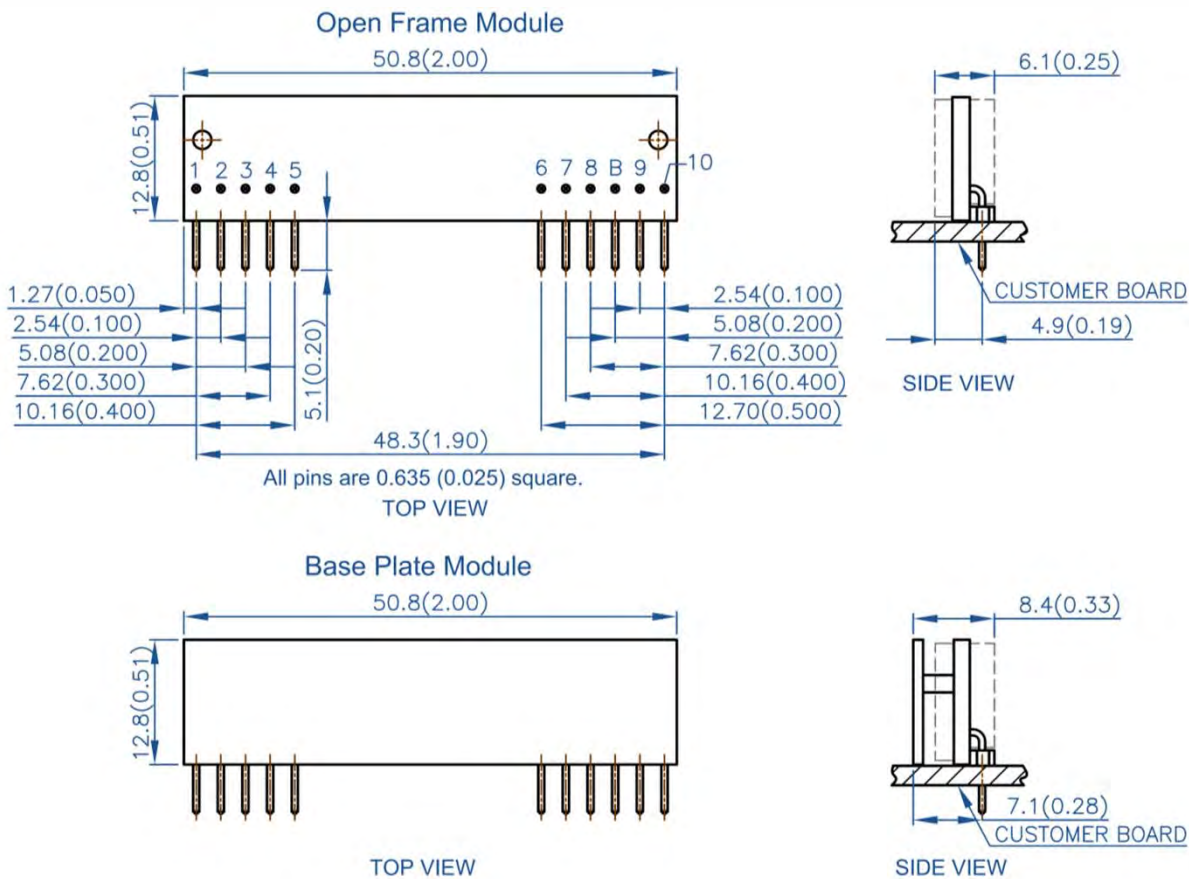
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
NAT	0	□□□	□	□□□	□	□	□	
	0: 2.5-5.5V	Example: 000: Variable* (0.75-3.63V)	P: Positive N: Negative	Unit: A Example: 12:12A	Regular R: 0.180"	0: None 1:Voltage tracking 2:OVP 3:Both VT&OVP	5: Open frame 6: Baseplate	

* Consult the factory for semi-custom codes with the output voltage set to a specific value without using an external programming resistor.



NAT0 –POL Converters

Mechanical Dimensions



Pin	Name	Function
1	Vout	Output
2	Vout	Output
3	SENSE	Remote sense
4	Vout	Output
5	GND	Connected to Vin(-)
6	GND	Connected to Vin(-)
7	Vin	Input
8	Vin	Input
B	SEQ	Tracking/Sequencing
9	TRIM	Output voltage adjust
10	ON/OFF	Remote control

Model	Input Voltage(V)	Output Voltage(V)	Output Current (A)	Output Power (W)	Efficiency	Package
NAT0000x12Rxx	2.5-5.5	0.75-3.63	12	43.6	94.0%	SIP
NAT0000x20Rxx	2.5-5.5	0.75-3.63	20	72.6	96.0%	SIP



NAS0 –POL Converters

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
NAS	0	□□□	□	□□□	□	□	□	
	0: 2.5-5.5V	Example: 000: Variable* (0.75-3.63V)	P: Positive N: Negative	Unit: A Example: 12:12A	Regular S: SMT**	0: None 1: Voltage tracking 2: OVP 3: Both VT&OVP 4: Synchronization 5: Both Sync & OVP	5: Open frame 6: Baseplate	

* Consult the factory for semi-custom codes with the output voltage set to a specific value without using an external programming resistor.

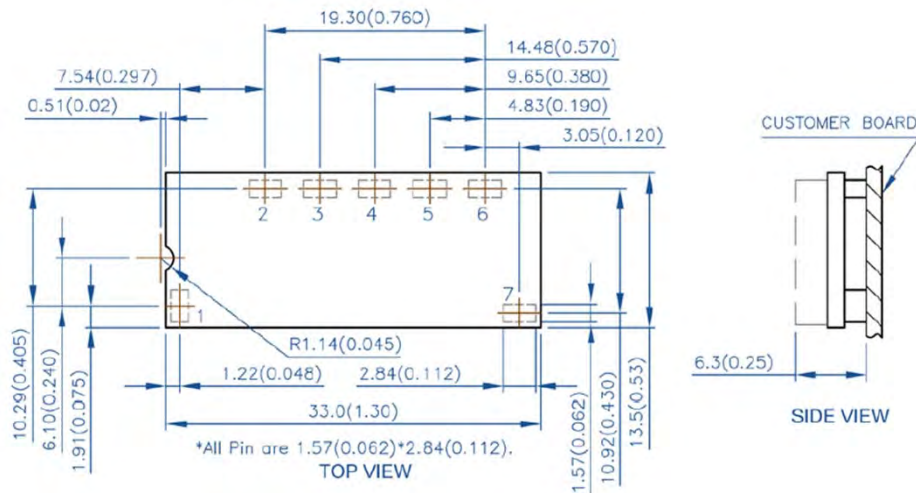
** SMT pins are metal block pins at the same locations as the through-hole pins. The recommended diameter for pad/stencil opening and solder mask opening for these pins is 0.12".



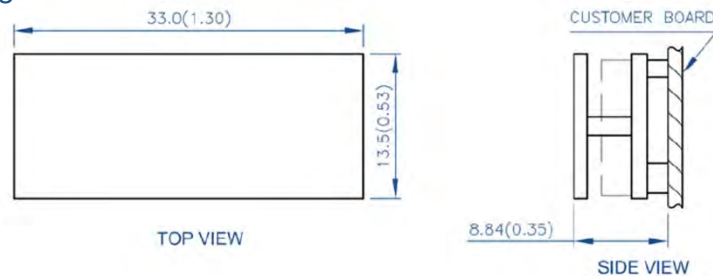
NAS0 –POL Converters

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	ON/OFF	Remote control
2	SENSE	Remote sense
3	TRIM	Output voltage adjust
4	Vout	Output
5	GND	Connected to Vin(-)
6	SEQ	Tracking/ Sequencing
7	Vin	Input voltage

Model	Input Voltage(V)	Output Voltage(V)	Output Current (A)	Output Power (W)	Efficiency	Package
NAS0000x12Sxx	2.5-5.5	0.75-3.63	12	43.6	94.0%	SMT
NAS0000x20Sxx	2.5-5.5	0.75-3.63	20	72.6	96.0%	SMT



NBS0-POL Converters

Part Numbering System

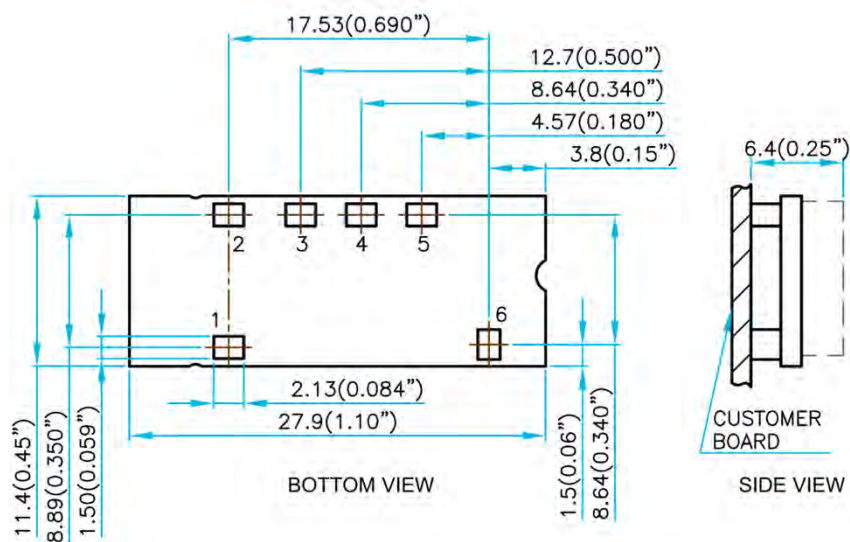
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Option	Suffix
NBS	0	□□□	□	□□□	□	□	□	
	0: 2.5-5.5V	Example: 000: Variable* (0.75-3.63V)	P: Positive N: Negative	Unit: A Example: 08: 8A	Regular S: SMT	0: None 1: Voltage tracking	5: Open frame	

** Consult the factory for semi-custom codes with the output voltage set to a specific value without using an external programming resistor.*



NBS0-POL Converters

Mechanical Dimensions



Pin	Name	Function
1	Vin	Input
2	SEQ	Tracking/Sequencing
3	GND	Connected to Vin(-)
4	TRIM	Output voltage adjust
5	Vout	Output
6	ON/OFF	Remote control

Model	Input Voltage(V)	Output Voltage(V)	Output Current (A)	Output Power (W)	Efficiency	Package
NBS0000x08Sxx	2.5-5.5	0.75-3.63	8	29	92.0%	SMT



NKS1-POL Converters

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Option	Suffix
NKS	1	□□□	□	□□□	□	□	□	
	1: 4.5- 14V	Example: 000: Variable* (0.59-5.5V)	P: Positive N: Negative	Unit: A Example: 06: 6A	Regular S: SMT**	0: None 1: Output tracking	5: Open frame	

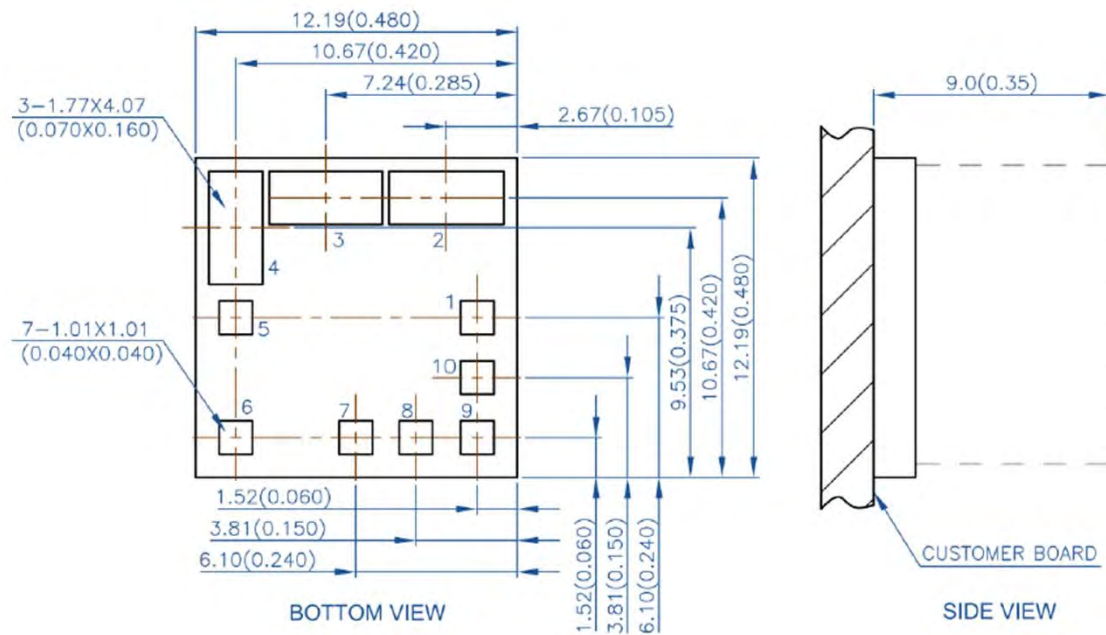
* Standard product has variable output voltage (adjustable between 0.59 – 5.5V). Please contact the factory if fixed output voltage models are needed.

** SMT pins are metal block pins at the same locations as the through-hole pins. The recommended diameter for pad/stencil opening and solder mask opening for these pins is 0.12"



NKS1-POL Converters

Mechanical Dimensions



Pin	Name	Function
1	ON/OFF	Remote control
2	Vin	Input
3	GND	Connected to Vin(-)
4	Vout	Output
5	SENSE	Remote sense
6	TRIM	Output voltage adjust
7	GND	Connected to Vin(-)
8	NC	Not Connect
9	SEQ	Tracking/Sequencing
10	PGOOD	Power good

Model	Input Voltage(V)	Output Voltage(V)	Output Current (A)	Output Power (W)	Efficiency	Package
NKS1000x06Sxx	4.5-14	0.59-5.5	6	33	91.0%	SMT
NKS1000x12Sxx	4.5-14	0.59-5.5	12	66	93.3%	SMT



NRT1-POL Converters

Part Numbering System

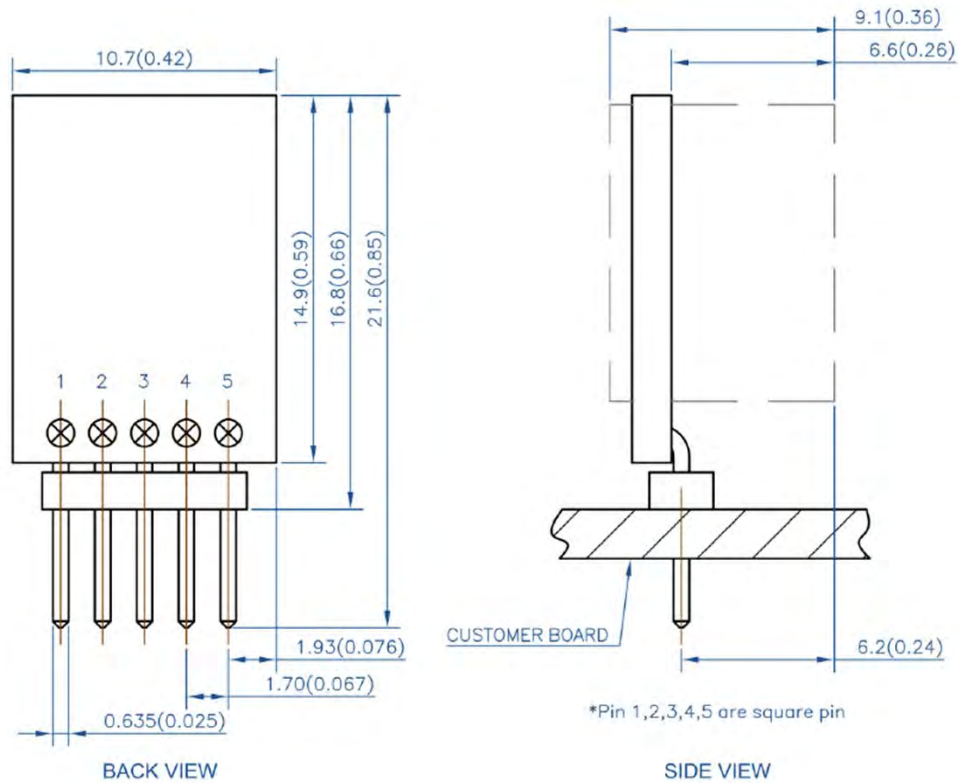
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Option	Suffix
NRT	1	□□□	□	□□□	□	□	□	
	1: 7.0-14V	Example: 000: Variable* (1.2-6.0V)	P: Positive N: Negative	Unit: A Example: 010: 10A	Regular T: Through-Hole	0: Standard	5: Standard	

* Standard product has variable output voltage (adjustable between 1.2 – 6.0V). Please contact the factory if fixed output voltage models are needed.



NRT1-POL Converters

Mechanical Dimensions



Pin	Name	Function
1	ON/OFF	Remote control
2	Vin(+)	Positive input voltage
3	GND	Ground terminal, the return or negative terminal of both the input voltage and the output voltage
4	Vo(+)	Positive output voltage
5	TRIM	Output voltage adjust

Model	Input Voltage(V)	Output Voltage(V)	Output Current (A)	Output Power (W)	Efficiency	Package
NRT1000P010T05	7.0-14	1.2-6	10	60	95.0%	SIP



NHT1-POL Converters

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Electrical Options 2	Packaging Option
NHT	1	□□□	□	□□□	□	□	□	
	1: 8-14V	Examples: Preset: 000: 1.6V 011: 1.1V 010: 1.0V Variable* (0.5-1.6)	P: Positive N: Negative	Unit: A Example: 100: 100A	H: Horizontal (0.18") R: Vertical (0.13") T: Vertical (0.17") S: SMT	0: No VID 1: VID	0: VR_RDY 1: VR_FAN. 2: IOUT 3: I-Share Note: This digit must be "2" if VID is selected in Electrical Option 1.	6: Heat sink

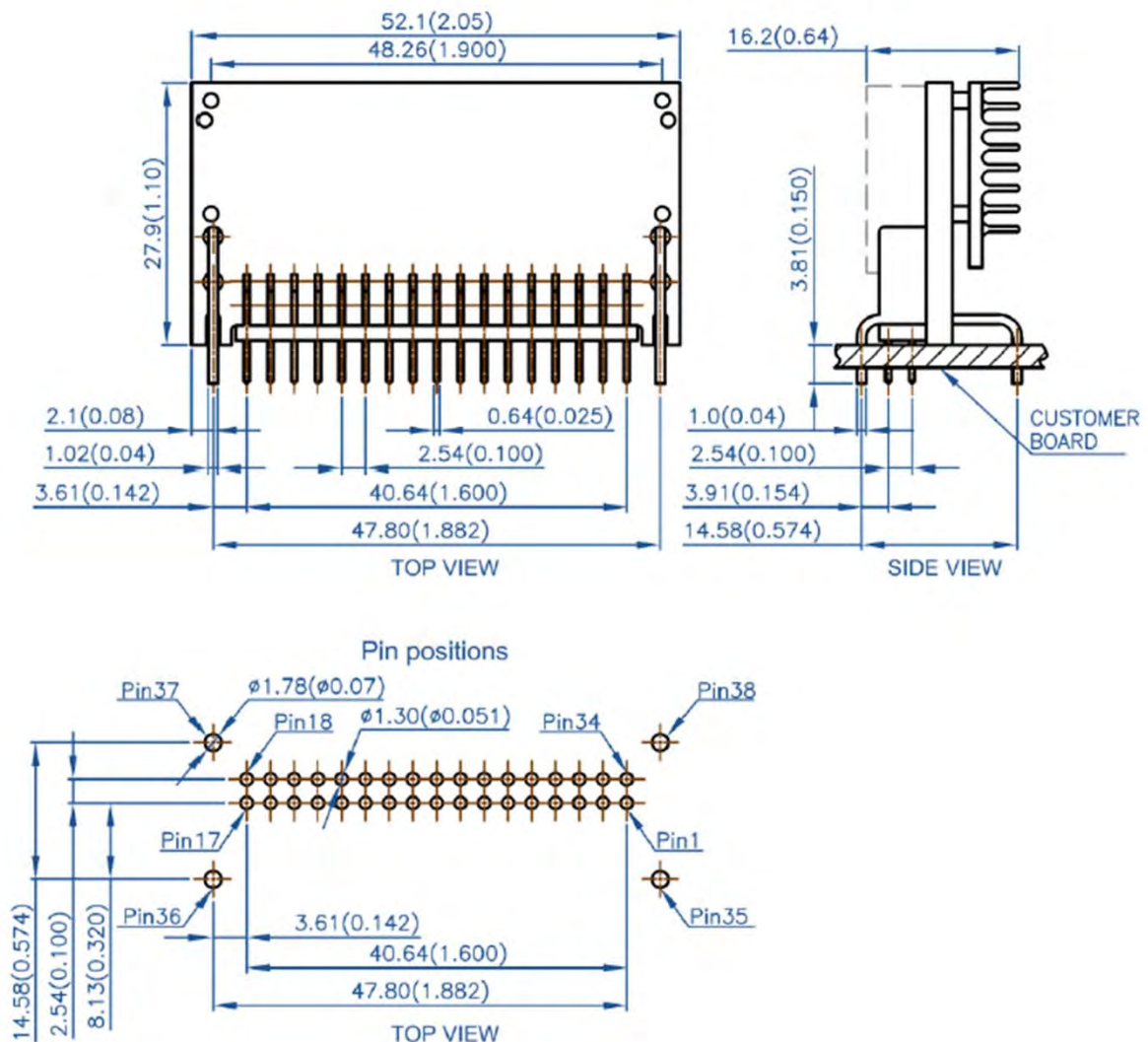
* For the availability of other preset output voltages, please consult with the factory.



NHT1-POL Converters

Mechanical Dimensions

Vertical Version



Pin Definition

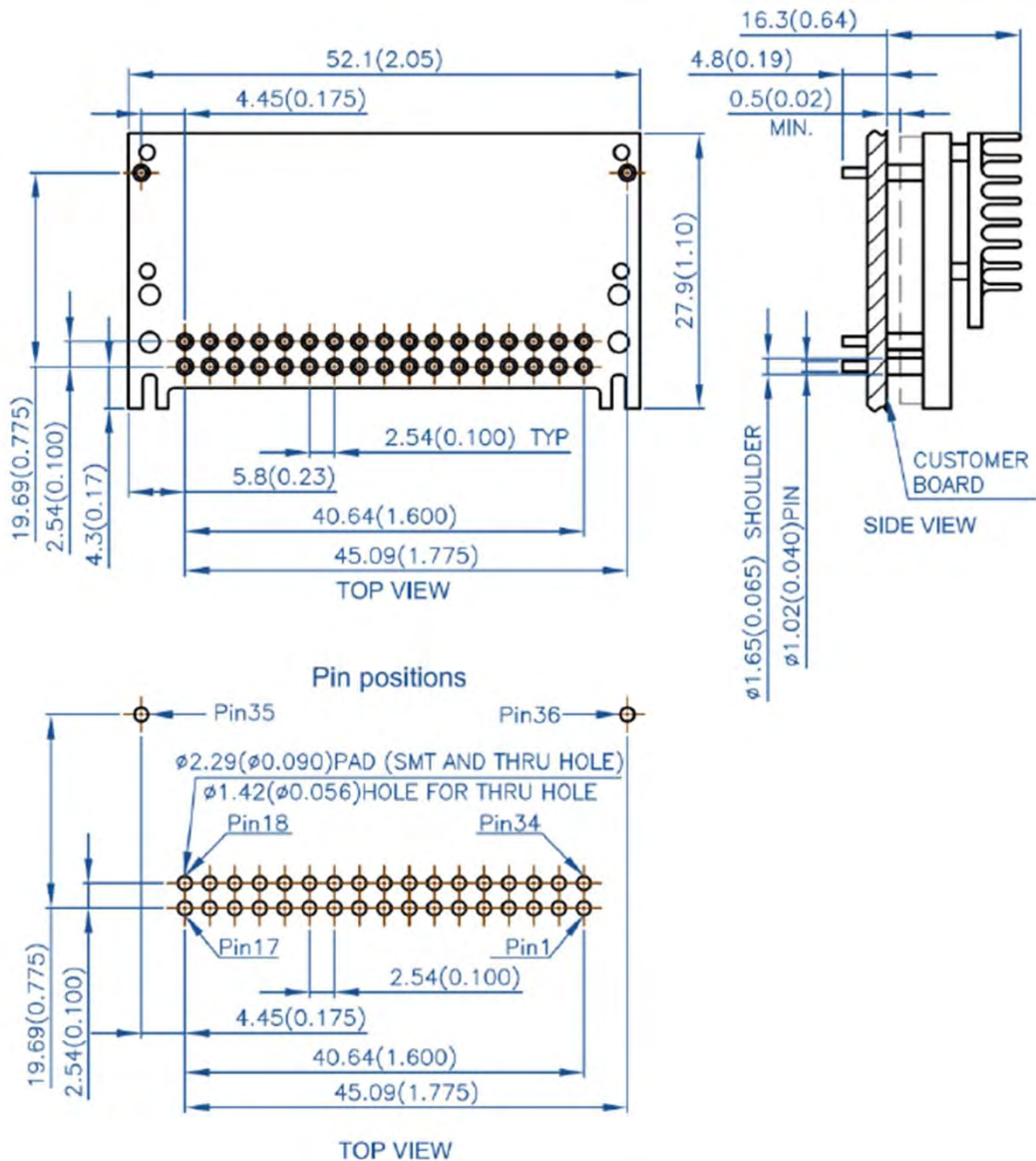
Vo	Vo	VRSEL	ID0	ID1	ID2	ID3	ID4	ID5	ID6	ID7	EN_VTT	VIN	VR_HOT	GND	VR_FAN	VR_RDY
34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Vo	Vo	Sense+	Vo	GND	GND	Vo	Vo	Vo	Sense-	TRIM	ON/OFF	VIN	OPTION	GND	VIN	VIN
35	36	37	38													
GND	GND	GND	GND													

Pin35 - Pin38 are supporter and GND pins. They must be connected to ground.



NHT1-POL Converters

Horizontal Version



Pin Definition

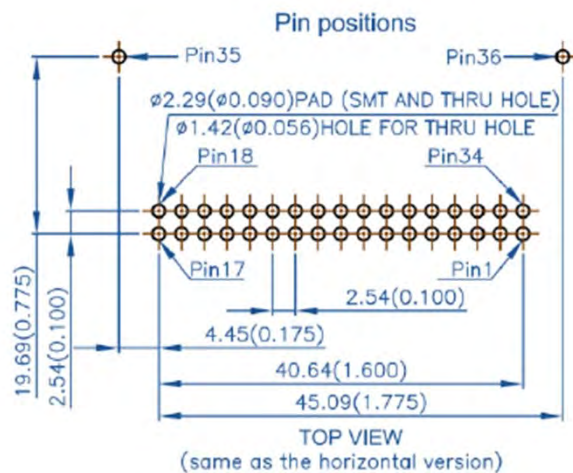
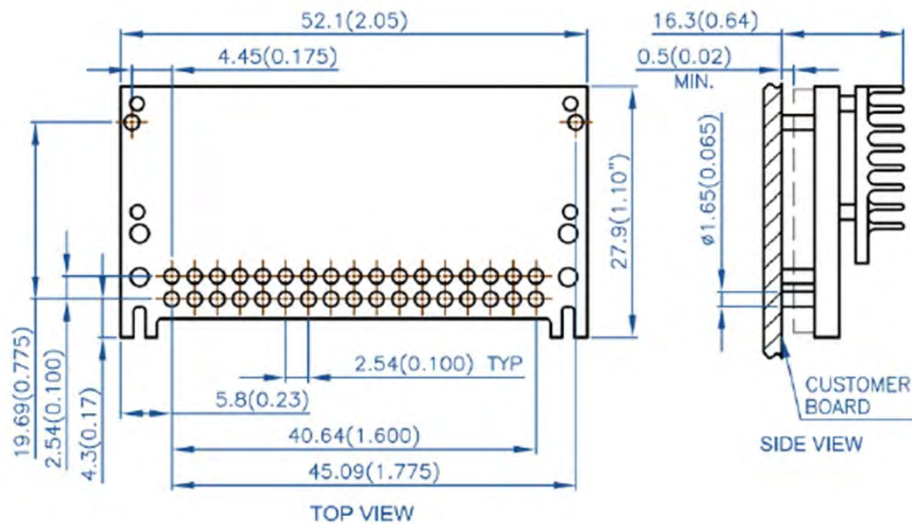
Vo	Vo	VRSEL	ID0	ID1	ID2	ID3	ID4	ID5	ID6	ID7	EN_VTT	VIN	VR_HOT	GND	VR_FAN	VR_RDY
34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Vo	Vo	Sense+	Vo	GND	GND	Vo	Vo	Vo	Sense-	TRIM	ON/OFF	VIN	OPTION	GND	VIN	VIN
35	36															
GND	GND															

Pin35 - Pin38 are supporter and GND pins. They must be connected to ground.



NHT1-POL Converters

SMT Version



Pin Definition

Vo	Vo	VRSEL	ID0	ID1	ID2	ID3	ID4	ID5	ID6	ID7	EN_VTT	VIN	VR_HOT	GND	VR_FAN	VR_RDY
34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Vo	Vo	Sense+	Vo	GND	GND	Vo	Vo	Vo	Sense-	TRIM	ON/OFF	VIN	OPTION	GND	VIN	VIN
35	36															
GND	GND															

Pin35 - Pin38 are supporter and GND pins. They must be connected to ground.





NHT1-POL Converters

Model	Input Voltage(V)	Output Voltage(V)	Output Current (A)	Output Power (W)	Efficiency	Package
NHT1xxx120xxx	8-14	0.5-1.6	120	192	89.0%	SMT,SIP,TH
NHT1xxx100xxx	8-14	0.5-1.6	100	160	89.0%	SMT,SIP,TH



NCT1-POL Converters

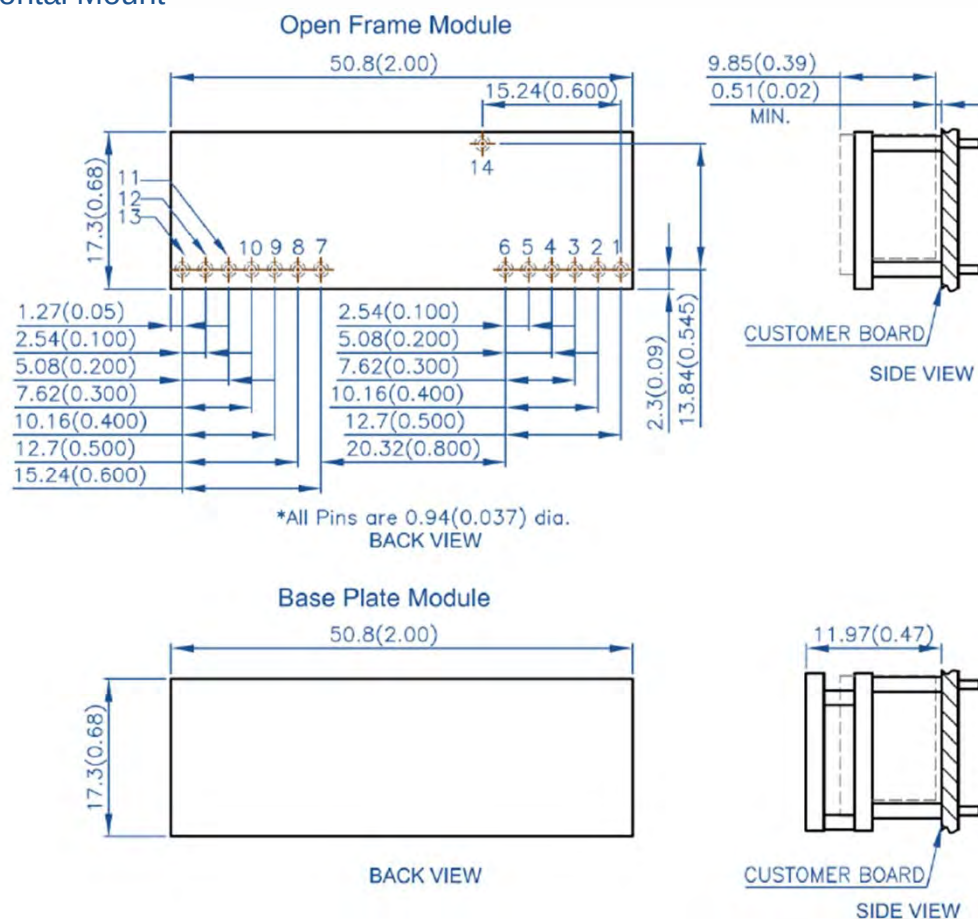
Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Electrical Options 2
NCT	1	□□□	□	□□□	□	□	□	
	1: 8-16 V	Example: 000: Variable (0.8-5V)	P: Positive N: Negative	Unit: A Example: 045:45A	H: Horizontal (0.18") R: Vertical (0.13") T: Vertical (0.17")	0: None 1: Output tracking	5: Open frame 6: Baseplate	0: None 1: Freq synch. 2: Power good 3: Sense-



NCT1-POL Converters

Mechanical Dimensions Horizontal Mount



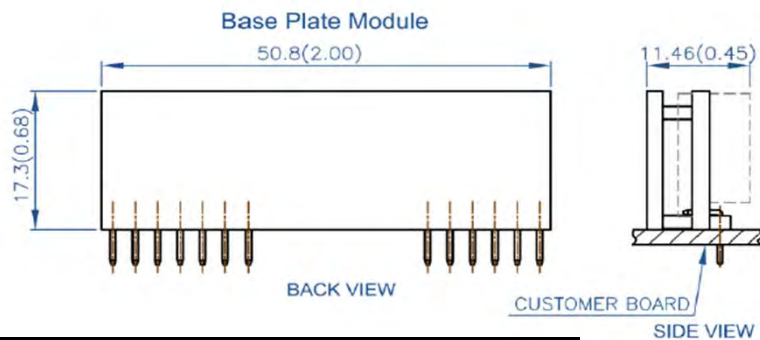
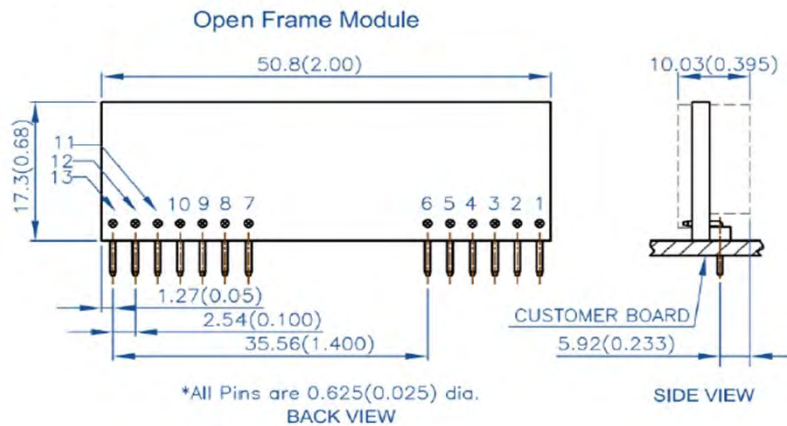
Pin	Name	Function
1	Vout	Output
2	Vout	Output
3	SENSE(+)	Positive remote sense
4	Vout	Output
5	GND	Connected to Vin(-)
6	GND	Connected to Vin(-)
7	OPTION	Optional pin
8	GND	Connected to Vin(-)
9	Vin	Input
10	Vin	Input
11	SEQ	Tracking/Sequencing
12	TRIM	Output voltage adjust
13	ON/OFF	Remote control
14	N/C	Not connect



NCT1-POL Converters

Mechanical Dimensions

Vertical Mount (SIP)



Pin	Name	Function
1	Vout	Output
2	Vout	Output
3	SENSE(+)	Positive remote sense
4	Vout	Output
5	GND	Connected to Vin(-)
6	GND	Connected to Vin(-)
7	OPTION	Optional pin
8	GND	Connected to Vin(-)
9	Vin	Input
10	Vin	Input
11	SEQ	Tracking/Sequencing
12	TRIM	Output voltage adjust
13	ON/OFF	Remote control

Model	Input Voltage(V)	Output Voltage(V)	Output Current (A)	Output Power (W)	Efficiency	Package
NCT1xxx045xxx	8-16	0.8-5.5	45	247.5	93.0%	SIP, TH
NCT1xxx060xxx	8-16	0.8-5.5	60	330	92.0%	SIP, TH



NBS1-POL Converters

Part Numbering System

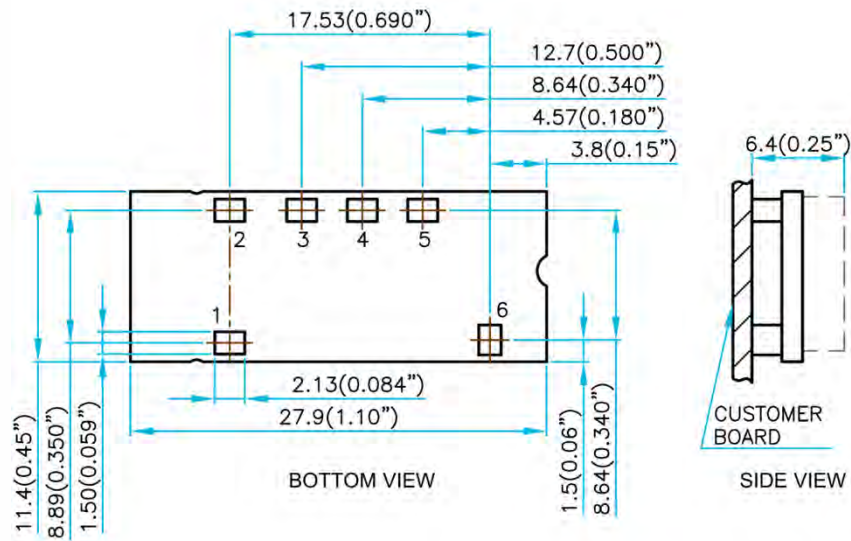
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Option	Suffix
NBS	1	□□□	□	□□□	□	□	□	
	1: 8.5-16V	Example: 000: Variable* (0.75-5.5V)	P: Positive N: Negative	Unit: A Example: 08: 8A	Regular S: SMT	0: None 1: Voltage tracking	5: Open frame	

* Consult the factory for semi-custom codes with the output voltage set to a specific value without using an external programming resistor.



NBS1-POL Converters

Mechanical Dimensions



Pin	Name	Function
1	Vin	Input
2	SEQ	Tracking/Sequencing
3	GND	Connected to Vin(-)
4	TRIM	Output voltage adjust
5	Vout	Output
6	ON/OFF	Remote control

Model	Input Voltage(V)	Output Voltage(V)	Output Current (A)	Output Power (W)	Efficiency	Package
NBS1000x08Sxx	8.5-16	0.75-5.5	8	44	91.0%	SMT



NAT1-POL Converters

Part Numbering System

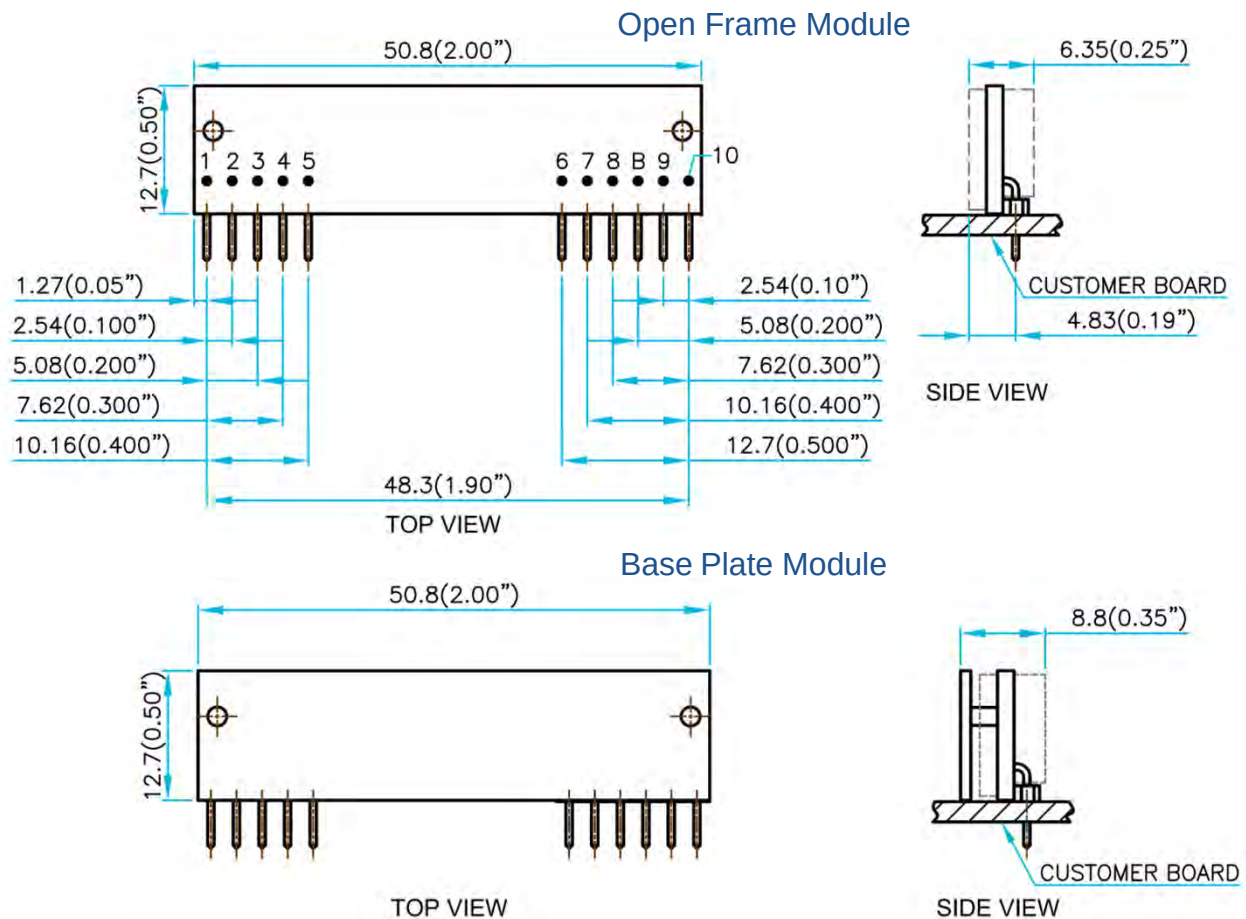
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
NAT	1	□□□	□	□□□	□	□	□	
	1: 8.5-18V	Example 000: Variable* (0.75-5.5V)	P: Positive N: Negative	Unit: A Example: 12:12A	Regular R: 0.180"	0: None 1:Voltage Tracking 2:OVP 3:Both VT&OVP 4:Synchronization 5:Both Sync & OVP	5: Open frame 6: Baseplate	

* Consult the factory for semi-custom codes with the output voltage set to a specific value without using an external programming resistor.



NAT1-POL Converters

Mechanical Dimensions



Pin	Name	Function
1	Vout	Output
2	Vout	Output
3	SENSE	Remote sense
4	Vout	Output
5	GND	Connected to Vin(-)
6	GND	Connected to Vin(-)
7	Vin	Input
8	Vin	Input
B	SEQ	Tracking/Sequencing
9	TRIM	Output voltage adjust
10	ON/OFF	Remote control

Model	Input Voltage(V)	Output Voltage(V)	Output Current (A)	Output Power (W)	Efficiency	Package
NAT1000x12Rxx	8.5-18	0.75-5.5	12	66	92.0%	SIP
NAT1000x20Rxx	8.5-18	0.75-5.5	20	110	91.0%	SIP



NAS1-POL Converters

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
NAS	1	□□□	□	□□□	□	□	□	
	1: 8.5-18 V	Example 000: Variable* (0.75-5.5V)	P: Positive N: Negative	Unit: A Example: 12:12A	Regular S: SMT**	0: None 1: Voltage Tracking 2: OVP 3: Both VT&OVP 4: Synchronization 5: Both Sync&OVP	5: Open frame 6: Baseplate	

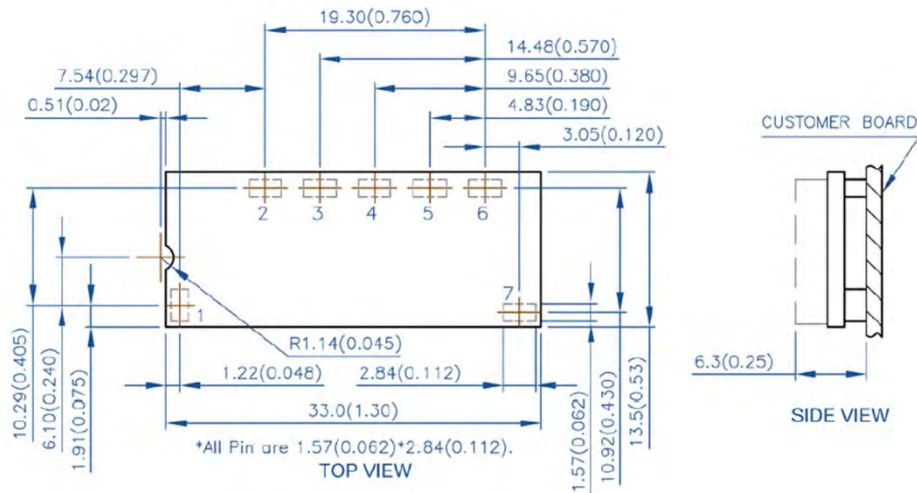
* Consult the factory for semi-custom codes with the output voltage set to a specific value without using an external programming resistor.

** SMT pins are metal block pins at the same locations as the through-hole pins. The recommended diameter for pad/stencil opening and solder mask opening for these pins is 0.12"

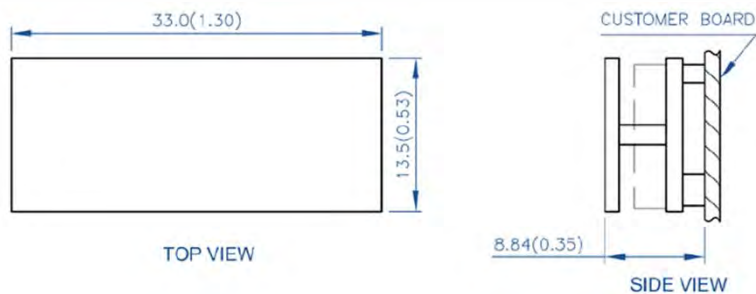


NAS1-POL Converters

Mechanical Dimensions Open Frame Module



Base Plate Module



Pin	Name	Function
1	ON/OFF	Remote control
2	SENSE	Remote sense
3	TRIM	Output voltage adjust
4	Vout	Output
5	GND	Connected to Vin(-)
6	SEQ	Tracking/ Sequencing
7	Vin	Input voltage

Model	Input Voltage(V)	Output Voltage(V)	Output Current (A)	Output Power (W)	Efficiency	Package
NAS1000x12Sxx	8.5-18	0.75-5.5	12	66	92.0%	SMT
NAS1000x20Sxx	8.5-18	0.75-5.5	20	110	91.0%	SMT



NES1-POL Converters

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
NES	1	□□□	□	□□□	□	□	□	
	1: 8.5-18V	Example: 000: Variable* (0.75-5.5V)	P: Positive N: Negative	Unit: A Example: 030:30A	Regular S: SMT**	0:None 1:Voltage Tracking 2:OVP 3:Both VT&OVP	5: Open frame 6: Baseplate	

* Consult the factory for semi-custom codes with the output voltage set to a specific value without using an external programming resistor.

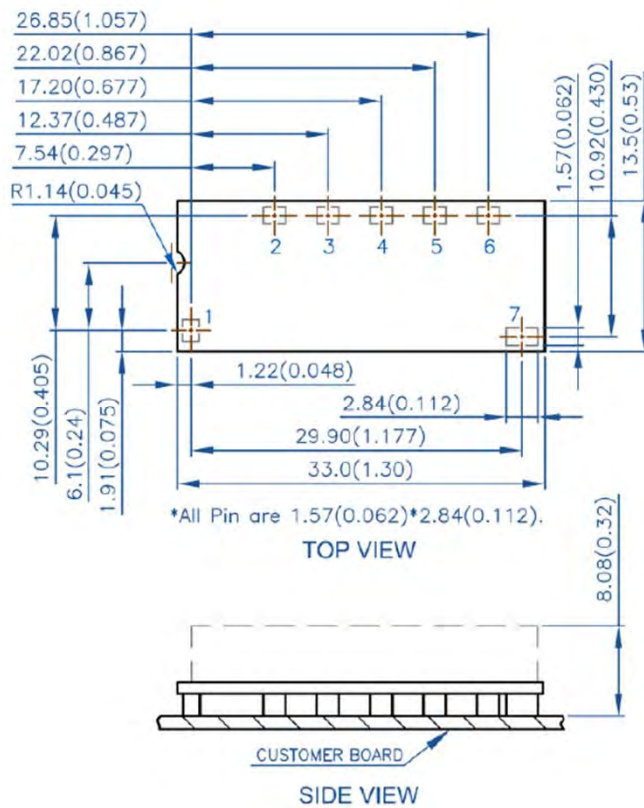
** SMT pins are metal block pins at the same locations as the through-hole pins. The recommended diameter for pad/stencil opening and solder mask opening for these pins is 0.12".



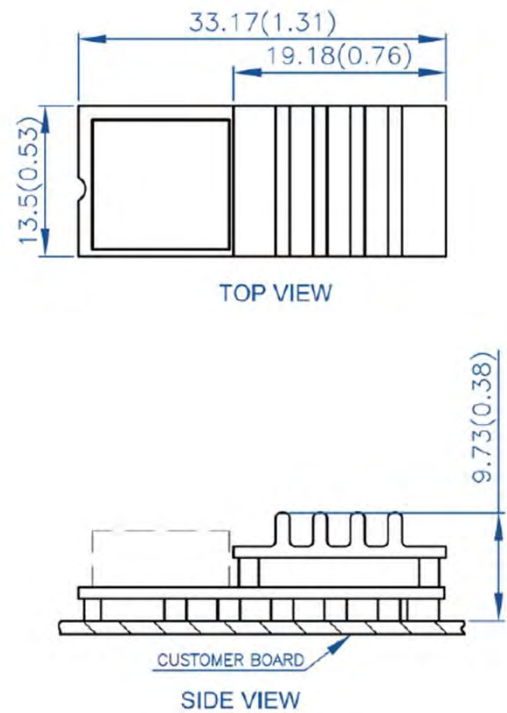
NES1-POL Converters

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	ON/OFF	Remote control
2	SENSE	Remote sense
3	TRIM	Output voltage adjust
4	Vout	Output
5	GND	Connected to Vin(-)
6	SEQ	Tracking/Sequencing
7	Vin	Input

Model	Input Voltage(V)	Output Voltage(V)	Output Current (A)	Output Power (W)	Efficiency	Package
NES1000x16Sxx	8.5-18	0.75 -5.5	16	88	96.0%	SMT
NES1000x30Sxx	8.5-18	0.75-5.5	30	165	96.0%	SMT



NAT2-POL Converters

Part Numbering System

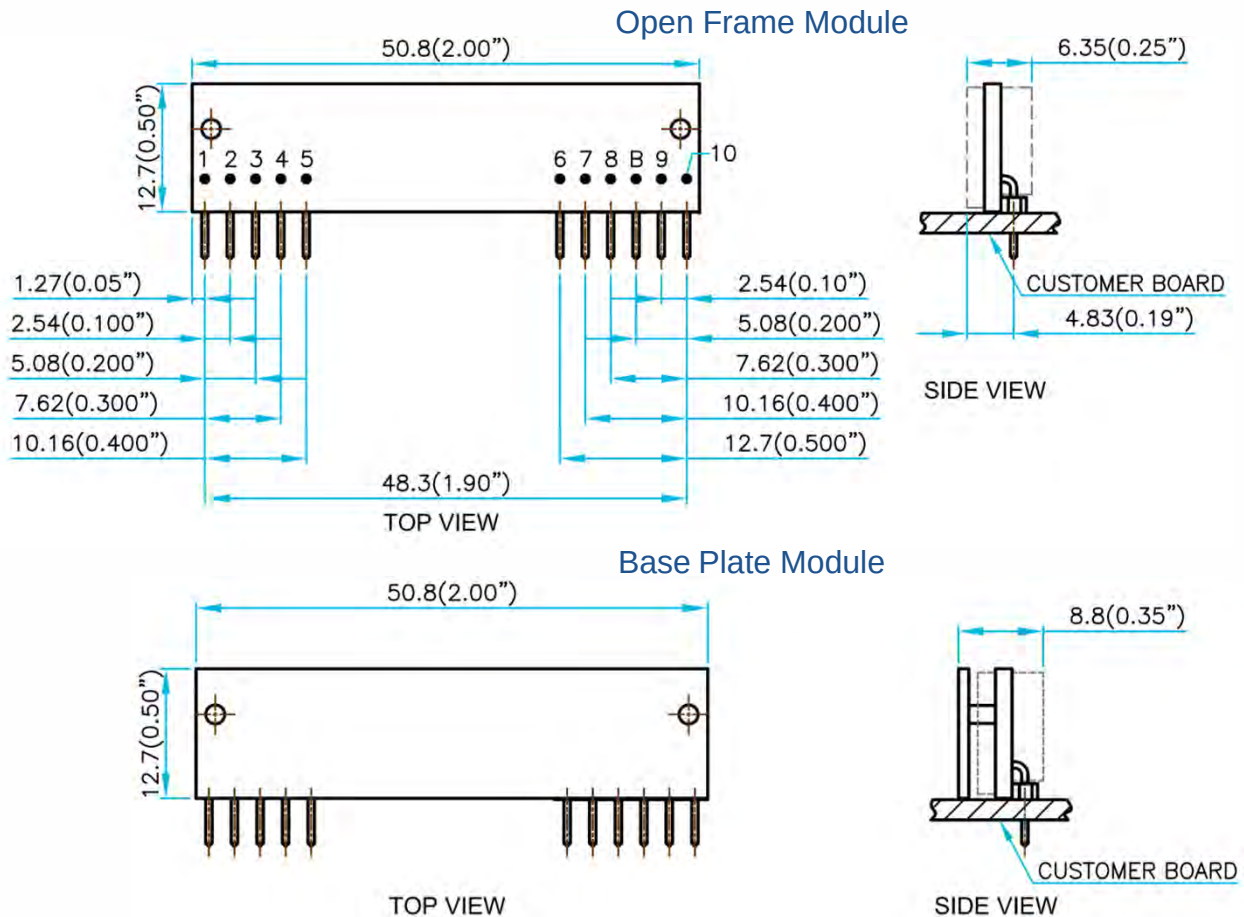
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
NAT	2	□□□	□	□□□	□	□	□	
	2: 9-36V	Unit: 0.1V Example: 000: Variable* (3.0-6.0V)	P: Positive N: Negative	Unit: A Example: 010: 10A	Regular R: 0.2"	0: None 1: Voltage Tracking 2: OVP 3: Both VT&OVP 4: Synchronization 5: Both Sync & OVP	5: Open frame 6: Baseplate	

* Consult the factory for semi-custom codes with the output voltage set to a specific value without using an external programming resistor.



NAT2-POL Converters

Mechanical Dimensions



Pin	Name	Function
1	Vout	Output
2	Vout	Output
3	SENSE	Remote sense
4	Vout	Output
5	GND	Connected to Vin(-)
6	GND	Connected to Vin(-)
7	Vin	Input
8	Vin	Input
B	SEQ	Tracking/Sequencing
9	TRIM	Output voltage adjust
10	ON/OFF	Remote control

Model	Input Voltage(V)	Output Voltage(V)	Output Current (A)	Output Power (W)	Efficiency	Package
NAT2000x10Rxx	9.0-36	3.0-6.0	10	45	88.0%	SIP



NAS2-POL Converters

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
NAS	2	□□□	□	□□□	□	□	□	
	2: 9-36 V	Example 000: Variable* (3.0-6.0V)	P: Positive N: Negative	Unit: A Example: 10:10A	Regular S: SMT**	0: None 1:Voltage Tracking 2:OVP 3:Both VT&OVP 4:Synchronization 5:Both Sync &OVP	5: Open frame 6: Baseplate	

* Consult the factory for semi-custom codes with the output voltage set to a specific value without using an external programming resistor.

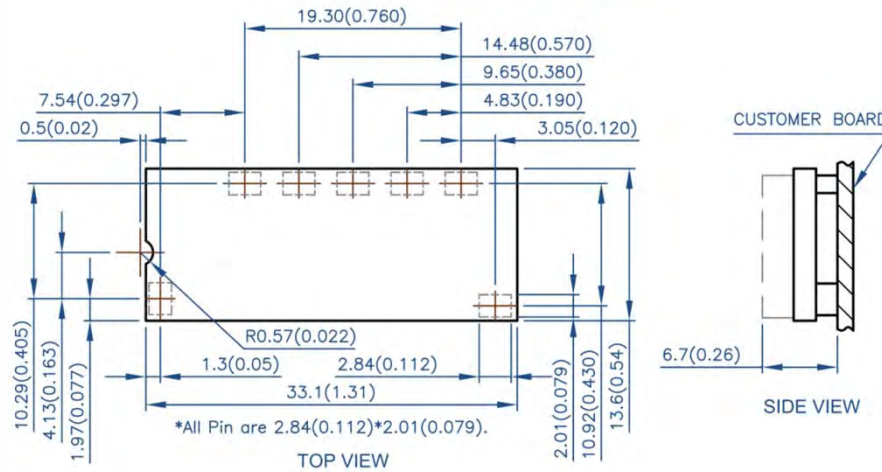
** SMT pins are metal block pins at the same locations as the through-hole pins. The recommended diameter for pad/stencil opening and solder mask opening for these pins is 0.12"



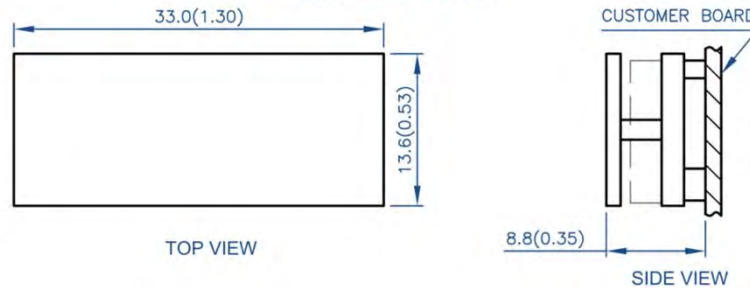
NAS2-POL Converters

Mechanical Dimensions

Open Frame Module



Base Plate Module



Pin	Name	Function
1	ON/OFF	Remote control
2	SENSE	Remote sense
3	TRIM	Output voltage adjust
4	Vout	Output
5	GND	Connected to Vin(-)
6	SEQ	Tracking/ Sequencing
7	Vin	Input voltage

Model	Input Voltage(V)	Output Voltage(V)	Output Current (A)	Output Power (W)	Efficiency	Package
NAS2000x10Sxx	9.0-36	3.0- 6.0	10	45	88.0%	SMT



NBS2-POL Converters

Part Numbering System

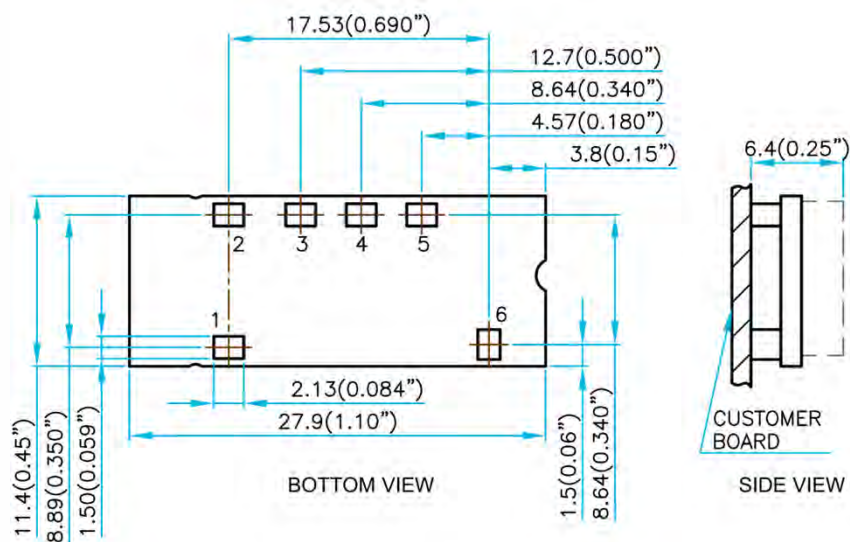
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
NBS	2	□□□	□	□□□	□	□	□	
	2: 9-36V	Example 000: Variable* (3.0-6.0V)	P: Positive N: Negative	Unit: A Example: 04: 3.5A	Regular S: SMT	0: None 1: Voltage tracking	5: Open frame	

* Consult the factory for semi-custom codes with the output voltage set to a specific value without using an external programming resistor.



NBS2-POL Converters

Mechanical Dimensions



Pin	Name	Function
1	Vin	Input
2	SEQ	Tracking/Sequencing
3	GND	Connected to Vin(-)
4	TRIM	Output voltage adjust
5	Vout	Output
6	ON/OFF	Remote control

Model	Input Voltage(V)	Output Voltage(V)	Output Current (A)	Output Power (W)	Efficiency	Package
NBS2000x04Sxx	9-36	3- 6	3.5	18	86.0%	SMT



NAT3-POL Converters

Part Numbering System

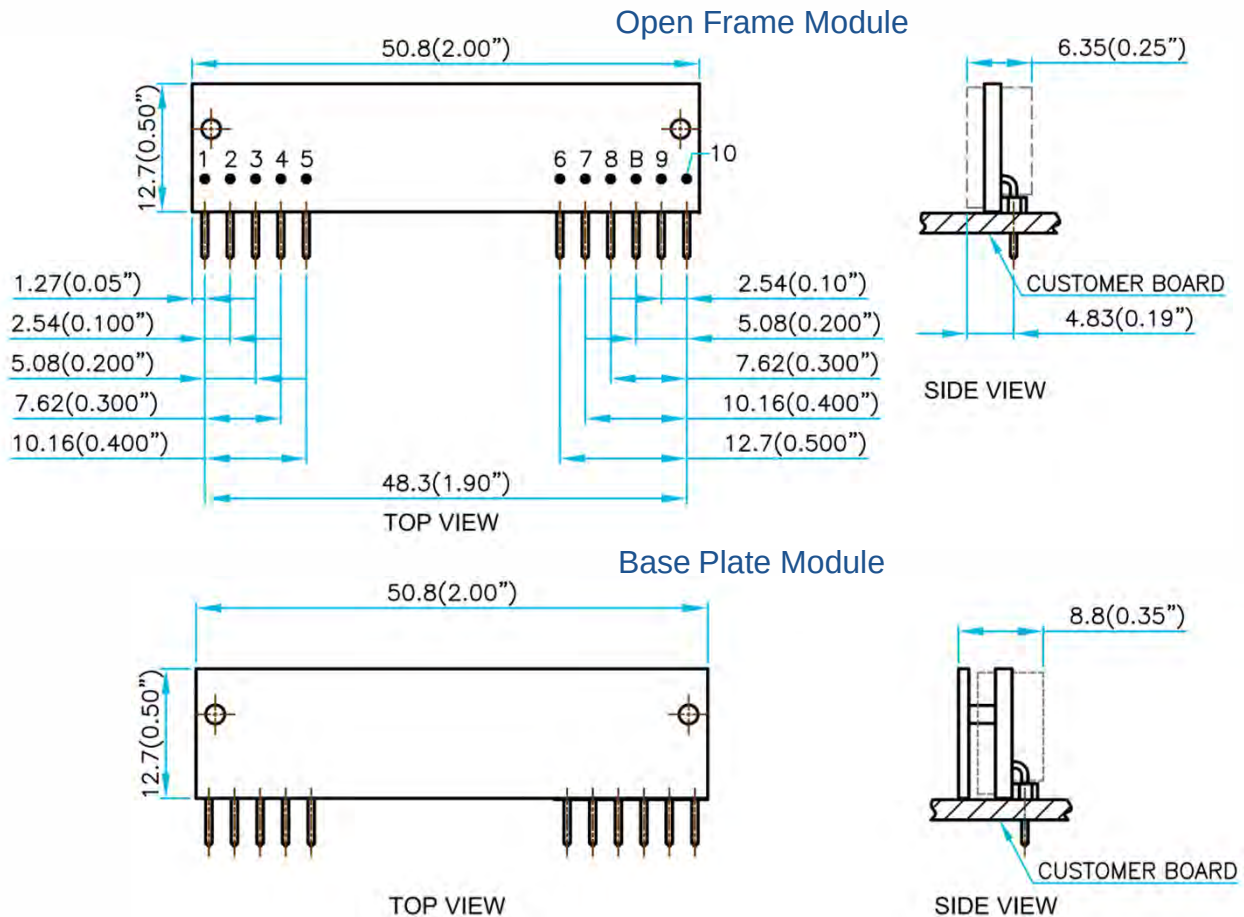
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
NAT	3	□□□	□	□□□	□	□	□	
	3: 18-36V	Unit: 0.1V Example: 050: 5V 000: Variable* (5.0-15.5V)	P: Positive N: Negative	Unit: A Example: 09: 9A	Regular R: 0.2"	0: None 1: Voltage Tracking 2: OVP 3: Both VT&OVP 4: Synchronization 5: Both Sync&OVP	5: Open frame 6: Baseplate	

* Consult the factory for semi-custom codes with the output voltage set to a specific value without using an external programming resistor.



NAT3-POL Converters

Mechanical Dimensions



Pin	Name	Function
1	Vout	Output
2	Vout	Output
3	SENSE	Remote sense
4	Vout	Output
5	GND	Connected to Vin(-)
6	GND	Connected to Vin(-)
7	Vin	Input
8	Vin	Input
B	SEQ	Tracking/Sequencing
9	TRIM	Output voltage adjust
10	ON/OFF	Remote control

Model	Input Voltage(V)	Output Voltage(V)	Output Current (A)	Output Power (W)	Efficiency	Package
NAT3000x09Rxx	18-36	5.0-15.5	9	60	94.0%	SIP



NAS3-POL Converters

Part Numbering System

Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
NAS	3	□□□	□	□□□	□	□	□	
	2: 18-36 V	Example 000: Variable* (5.0-15.5V)	P: Positive N: Negative	Unit: A Example: 09:9A	Regular S: SMT**	0: None 1:Voltage Tracking 2:OVP 3:Both VT&OVP 4:Synchronization 5:Both Sync&OVP	5: Open frame 6: Baseplate	

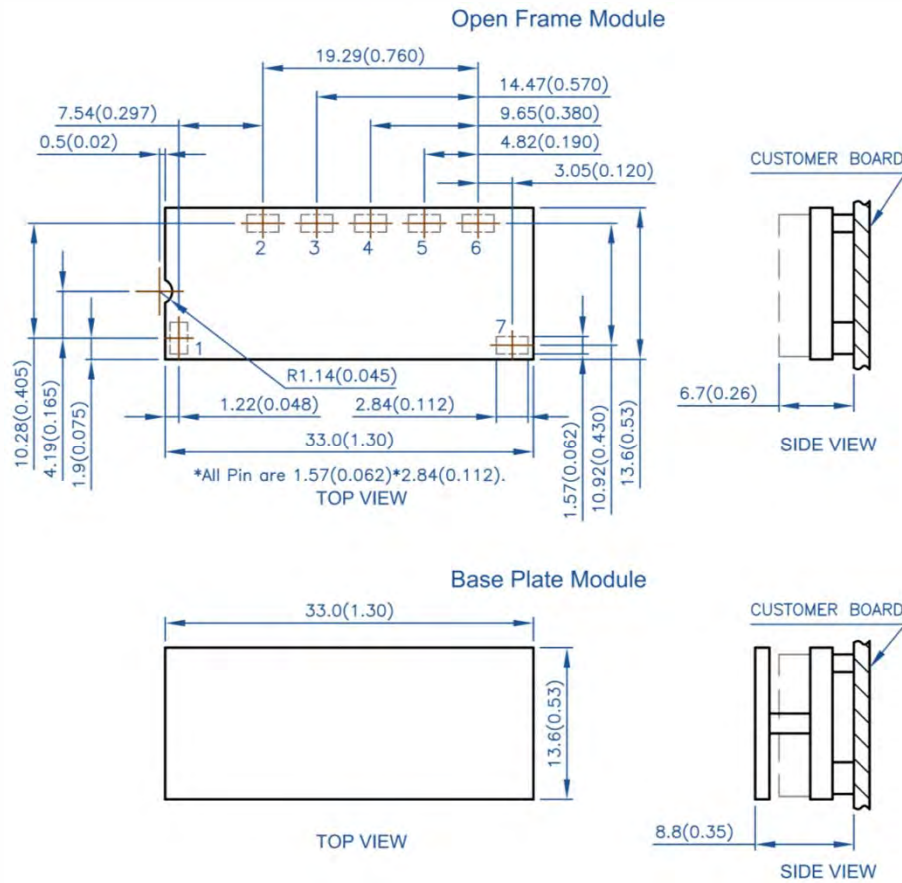
* Consult the factory for semi-custom codes with the output voltage set to a specific value without using an external programming resistor.

** SMT pins are metal block pins at the same locations as the through-hole pins. The recommended diameter for pad/stencil opening and solder mask opening for these pins is 0.12"



NAS3-POL Converters

Mechanical Dimensions



Pin	Name	Function
1	ON/OFF	Remote control
2	SENSE	Remote sense
3	TRIM	Output voltage adjust
4	Vout	Output
5	GND	Connected to Vin(-)
6	SEQ	Tracking/ Sequencing
7	Vin	Input voltage

Model	Input Voltage(V)	Output Voltage(V)	Output Current (A)	Output Power (W)	Efficiency	Package
NAS3000x09Sxx	18-36	5-15.5	9	60	94.0%	SMT



NBS3-POL Converters

Part Numbering System

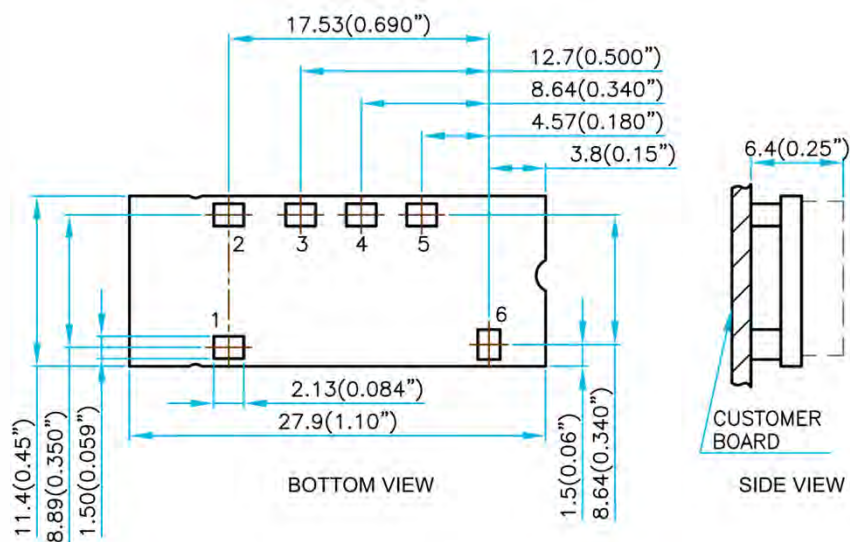
Series Name	Input Voltage	Output Voltage	ON/OFF Logic	Output Current	Pin Feature	Electrical Options	Packaging Options	Suffix
NBS	3	□□□	□	□□□	□	□	□	
	3: 18-36V	Example 000: Variable* (5.0-15.5V)	P: Positive N: Negative	Unit: A Example: 04: 3.5A	Regular S: SMT	0: None 1: Voltage tracking	5: Open frame	

** Consult the factory for semi-custom codes with the output voltage set to a specific value without using an external programming resistor.*



NBS3-POL Converters

Mechanical Dimensions



Pin	Name	Function
1	Vin	Input
2	SEQ	Tracking/Sequencing
3	GND	Connected to Vin(-)
4	TRIM	Output voltage adjust
5	Vout	Output
6	ON/OFF	Remote control

Model	Input Voltage(V)	Output Voltage(V)	Output Current (A)	Output Power (W)	Efficiency	Package
NBS3000x04Sxx	18-36	5.0-15.5	3.5	24	94.0%	SMT

