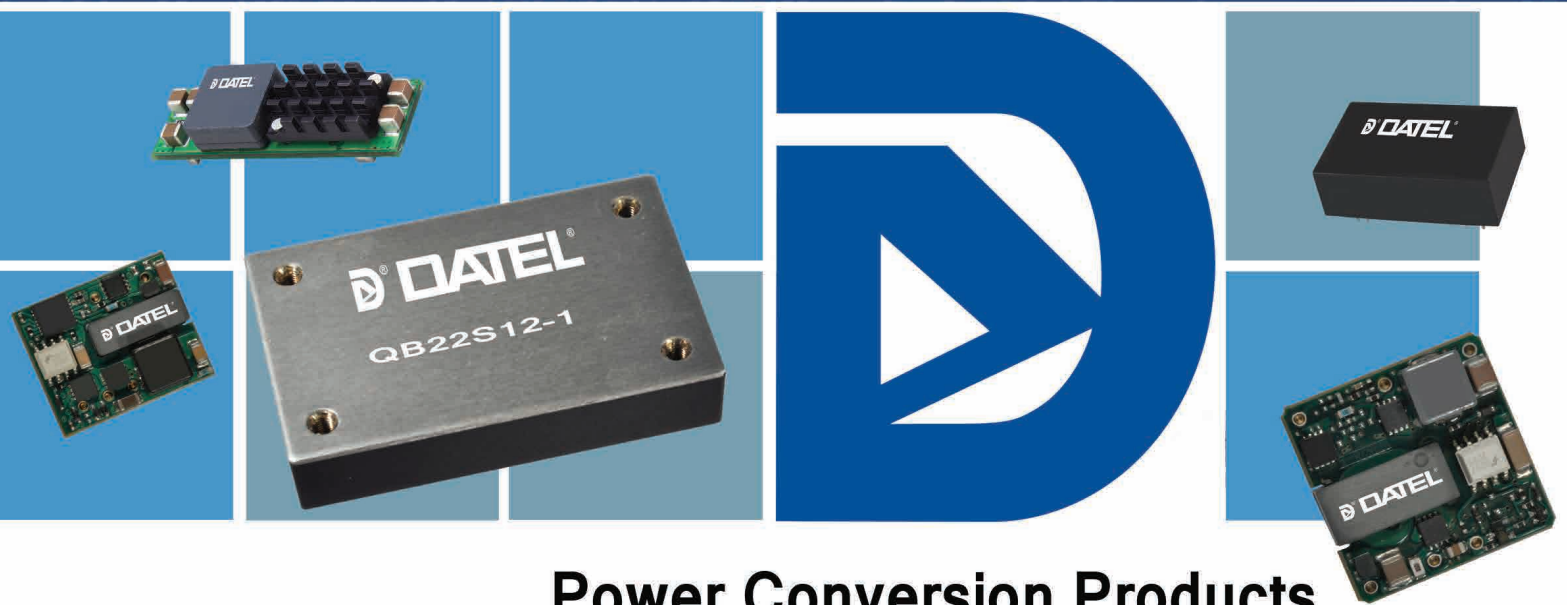




DC-DC Converters Isolated and Non-Isolated



Power Conversion Products

DC-DC Power Products

Since its founding in 1970, DATEL has established a worldwide reputation as a provider of both standard and custom products designed to meet the ever-changing requirements of military, HI-REL, medical, scientific and industrial applications.

Recognizing the unique needs of each system's power requirements, DATEL has established itself as a supplier

that works with its customers to provide the right solution.

Our standard DC-DC converters range from ½ watt to 700 watts and are offered in a variety of form factors including: encapsulated, open frame, surface mount, chassis mount, PC board mount and enclosed air ventilated.

Custom DC-DC Solutions

If our standard product offering is not the right fit, DATEL's design team can modify an existing product or provide a complete custom design to meet your application's requirements.

Our broad range of processing capabilities, technical knowledge and design experience has made DATEL a

leader in the DC-DC market for more than 45-years.

If one of our standard products does not quite fit the bill, we will work with you to create a custom solution, leaving you secure in the knowledge that the tailored design meets your needs and is produced with the highest quality.

About this catalog...

In addition to the product offering shown here, DATEL offers a variety of package/pin-out compatible families offering variations such as: different input ranges, lower

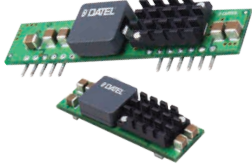
power, expanded I/O Isolation, lower cost, etc.

For more information Contact DATEL
sales@datel.com / 508 964-5131

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<p>Point of Load Series</p>  <p>3</p>	<p>Ordering Information</p> <table border="1"> <tr> <td>Family, Form Factor or Package</td> <td>Nominal Vin</td> <td>Number of Outputs</td> <td>Voltage Output</td> <td>Output Current</td> <td>Options</td> <td></td> </tr> <tr> <td>AA</td> <td>45</td> <td>D</td> <td>5</td> <td>-4</td> <td>xxx</td> <td>10</td> </tr> </table>	Family, Form Factor or Package	Nominal Vin	Number of Outputs	Voltage Output	Output Current	Options		AA	45	D	5	-4	xxx	10
Family, Form Factor or Package	Nominal Vin	Number of Outputs	Voltage Output	Output Current	Options										
AA	45	D	5	-4	xxx	10									
<p>24-Pin Series</p>  <p>4</p>	<p>Customs and Specials</p>  <p>11</p>														
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Point-of-Load DC-DC Converters



For point-of-load applications, the PT/PS series of non-isolated DC-DC converters from DATEL provides a regulated user-selectable output voltage that operates over the full industrial temperature range. The Ultra-high efficiency that this series offers is achieved through the use of

synchronous rectification and drive control techniques.

DATEL'S extensive testing and qualification program ensures a reliable point-of-load DC-DC converter for your application. Lower output current models available.

FEATURES / AVAILABLE OPTIONS

- Industry standard open frame thru-hole or SMT footprint
- Programmable output voltage via external resistor
- No minimum load requirement
- Continuous short-circuit and over-current protection
- Fixed switching frequency, Output voltage sequencing
- -40°C to +85°C industrial temperature range
- Negative and positive On/Off logic control, Power Good

- Sense Compensation, Over-temperature protection
- Monotonic start-up with output pre-bias
- UL/IEC/EN60950 available
- Customized versions available

Contact Datel for other series in a POL footprint

- LOWER POWER/COST IN THIS AND OTHER INDUSTRY STANDARD FOOTPRINTS

PT/PS POL SERIES

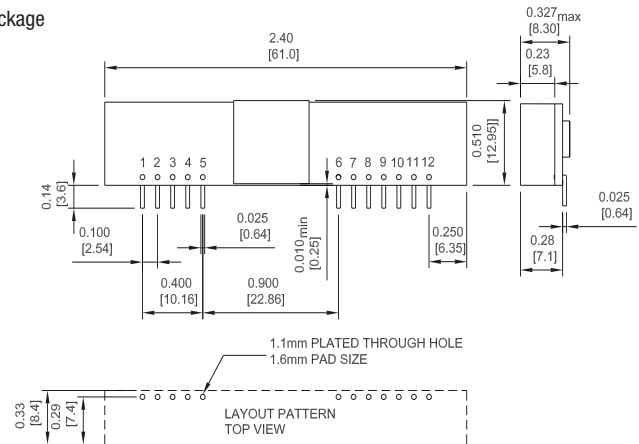
Power	Input Voltage Nominal	Input Voltage Range	Output Voltage	Output Current Max	Output Current Min	Efficiency (%)							Thru-Hole / SMT	Options ¹	DATEL Part #	
						0.7525 Vout	1.2 Vout	1.5 Vout	1.8 Vout	2.0 Vout	2.5 Vout	3.3 Vout				5.0 Vout
15 - 100	12	6 - 14	0.7525 - 5	20	0	78	84	87	88	89	90	92	94	Thru-Hole	N, P, G	PT12-20
15 - 100	12	6 - 14	0.7525 - 5	20	0	78	84	87	88	89	90	92	94	SMT	N, P, G	PS12-20

1. Options: See Ordering Information on page 10

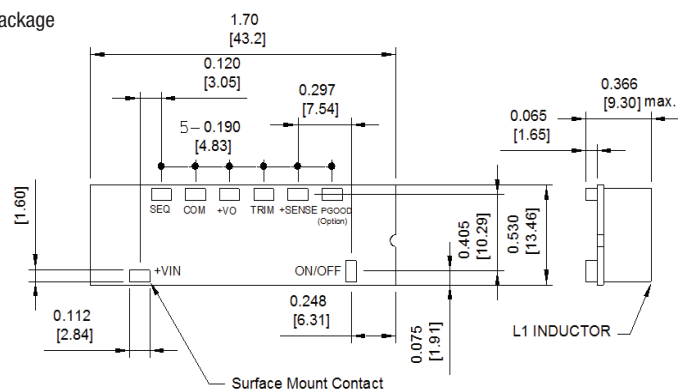
PT/PS POL SERIES PINOUT	
PIN	FUNCTION
1	+Vo
2	+Vo
3	+Sense
4	+Vo
5	Common
6	No Pin / PGOOD
7	Common
8	+Vin
9	+Vin
10	Sequence
11	Trim
12	ON/OFF

EXTERNAL RESISTOR VALUES to PROGRAM VOUT	
Vo, set (V)	Rtrim (KΩ)
0.7525	Open
1.2	22.46
1.5	13.05
1.8	90.24
2	7.417
2.5	5.009
3.3	3.122
5	1.472

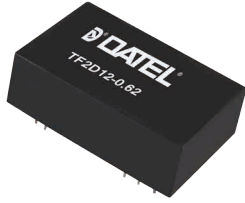
Thru-Hole Package



SMT Package



24-Pin DIP DC-DC Converters



DATEL's TF series provides an ultra-wide input voltage range, a precision regulated output, 1500VDC of isolation and operates at industrial temperature range of -40°C to 85°C. All models are suitable for distributed power architectures,

telecommunications, battery operated equipment and industrial applications. DATEL'S extensive testing and qualification program ensures a reliable DC-DC converter for your application.

FEATURES

- Industry-standard footprint
- -40°C to +85°C industrial temperature range
- Positive Logic On/Off control
- Designed for use without tantalum capacitors
- Thru-Hole metal package
- ULVO, short circuit and output over voltage protection
- Meets conductive EMI EN55022 class A without external components

AVAILABLE OPTIONS

- Surface Mount versions available
- CE Mark 2004/108/EC certification
- Customizable Vout and Vin
- UL60950-1, EN60950-1, and IEC60950-1 Safety

Contact Datel for other series in 24-pin DIP

- 2:1 INPUT RANGE, COST SAVING-LOWER POWER
- NON-ISOLATED SERIES
- HIGH 6KV ISOLATION SERIES

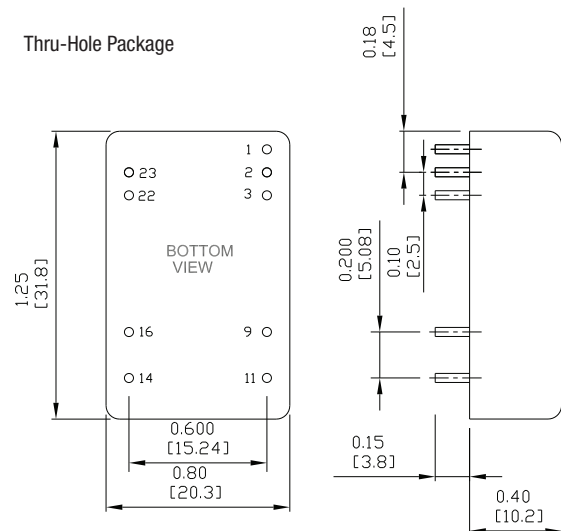
TF SERIES

Power	Input Voltage Nominal	Input Voltage Range	Output Voltage	Output Current Max	Output Current Min	Efficiency	Ripple ² (P-P)	Line Regulation	Load Regulation	Options ¹	DATEL Part #
Watts	Volts	Volts	Volts	Amps	Amps	%					
13.2	12	9-36	3.30	4.0	0	88	75	± 0.2%	± 0.5%	NA	TF22S3.3-4
15	12	9-36	5.00	3.0	0	90	75	± 0.2%	± 0.5%	NA	TF22S5-3
15	12	9-36	12.00	1.25	0	90	75	± 0.2%	± 0.5%	NA	TF22S12-1.25
15	12	9-36	15.00	1.0	0	90	75	± 0.2%	± 0.5%	NA	TF22S15-1
15	12	9-36	±12	±0.625	0	89	75	±0.5%	± 1.0%	NA	TF22D12-0.62
15	12	9-36	±15	±0.500	0	90	75	±0.5%	± 1.0%	NA	TF22D15-0.5
13.2	24	18-75	3.30	4.0	0	89	75	± 0.2%	± 0.5%	NA	TF45S3.3-4
15	24	18-75	5.00	3.0	0	90	75	± 0.2%	± 0.5%	NA	TF45S5-3
15	24	18-75	12.00	1.25	0	90	75	± 0.2%	± 0.5%	NA	TF45S12-1.25
15	24	18-75	15.00	1.0	0	90	75	± 0.2%	± 0.5%	NA	TF45S15-1
15	24	18-75	±12	±0.625	0	89.5	75	±0.5%	± 1.0%	NA	TF45D12-0.62
15	24	18-75	±15	±0.500	0	90	75	±0.5%	± 1.0%	NA	TF45D15-0.5

1. Options: See Ordering Information on page 10
2. 0.1uF ceramic and 10uF tantalum capacitive load, 20MHz BW

TF SERIES PINOUT		
Pin	Single Output	Dual Output
1	Remote On/Off*	Remote On/Off*
2,3	-Vin	-Vin
4, 5	NP	NP
9	NP	Common
10	NP	NP
11	NP	-Vo
12	NP	NP
13	NP	NP
14	+Vo	+Vo
15	NP	NP
16	-Vo	Common
20, 21, 24	NP	NP
22, 23	+Vin	+Vin

Thru-Hole Package



1 x 1 Package DC-DC Converters



DATEL's AA series of DC-DC converters offers up-to 40 watts of output power in an industry-standard 1 x 1 x 0.4" or lower height package. High efficiency, 1500 to 2250VDC isolation and operation over the industrial temperature range of -40°C to +85°C are just some of the features. These modules provide: UVLO (input under voltage lock out), output over-current/

short circuit protection, as well as thermal protection. The standard control functions include remote on/off and adjustable output voltage. All models are suitable for distributed power architectures, telecommunications, battery operated equipment and industrial applications.

FEATURES

- Industry-standard footprint
- -40°C to +85°C temperature range
- Open frame thru-hole, SMT encapsulated metal/plastic option
- Positive and Negative Logic On/Off control , Trim options
- Regulated outputs, fixed switching frequency
- Low no-load power consumption
- Designed for use without tantalum capacitors
- Meets conductive EMI EN55022 class A without external components
- ULVO, short circuit, over-current and output OV protection

AVAILABLE OPTIONS

- Customizable output voltages
- CE Mark 2004/108/EC certification
- UL60950-1, EN60950-1, and IEC60950-1 safety

Contact Datel for other series in 1" x 1" footprint

- 2:1 INPUT RANGES
- COST SAVING, LOWER POWER

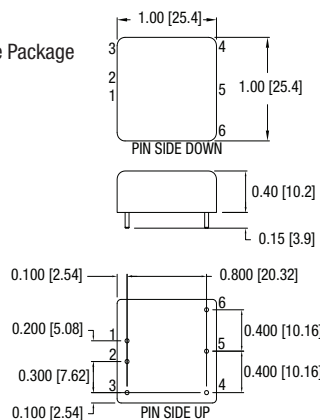
AA SERIES

Power	Input Voltage Nominal	Input Voltage Range	Output Voltage	Output Current Max	Output Current Min	Efficiency	Ripple ² (P-P)	Line Regulation	Load Regulation	Options ¹	DATEL Part #
Watts	Volts	Volts	Volts	Amps	mA	%					
29.7	24	9-36	3.3	9	0	88	20	± 0.1%	± 0.1%	S,N,P,T,E	AA22S3-3-9
40	24	9-36	5	8.0	0	90	20	± 0.1%	± 0.1%	S,N,P,T,E	AA22S5-8
30	24	9-36	12	2.5	0	89	30	± 0.1%	± 0.1%	S,N,P,T,E	AA22S12-2.5
30	24	9-36	15	2.0	0	89	40	± 0.1%	± 0.1%	S,N,P,T,E	AA22S15-2
30	24	9-36	±12	±1.25	0	88	100	±0.5	±1.0	S,N,P,T,E	AA22D12-1.25
30	24	9-36	±15	±1.0	0	88	100	±0.5	±1.0	S,N,P,T,E	AA22D15-1
29.7	48	18-75	3.3	9.0	0	88	20	± 0.1%	± 0.1%	S,N,P,T,E	AA45S3-3-9
30	48	18-75	5	6.0	0	90	20	± 0.1%	± 0.1%	S,N,P,T,E	AA45S5-6
30	48	18-75	12	2.5	0	89	20	± 0.1%	± 0.1%	S,N,P,T,E	AA45S12-2.5
30	48	18-75	15	2.0	0	89	20	± 0.1%	± 0.1%	S,N,P,T,E	AA45S15-2
30	48	18-75	±12	±1.25	0	88	100	±0.5	±1.0	S,N,P,T,E	AA45D12-1.25
30	48	18-75	±15	±1.0	0	89	100	±0.5	±1.0	S,N,P,T,E	AA45D15-1

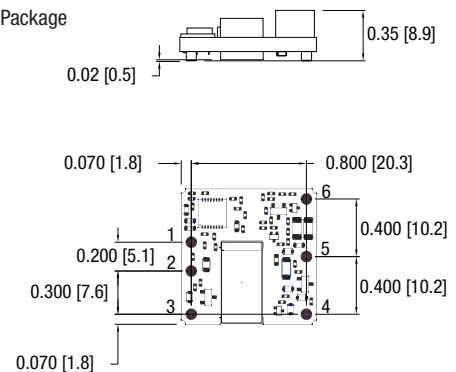
1. Options: See Ordering Information on page 10
 2. 20MHz BW 0.1uF ceramic and 22uF ceramic capacitive load.
 Dual output models: 1uF ceramic and 10uF tantalum.

AA SERIES PINOUT		
Pin	Single Output	Dual Output
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vo	+Vo
4	Trim	Common
5	-Vo	-Vo
6	Remote	Remote

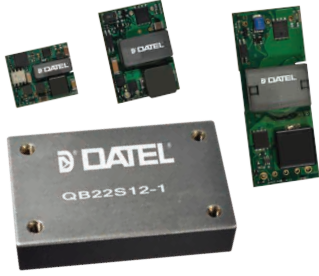
Thru-Hole Package



SMT Package



DOSA-Compatible DC-DC Brick Series



DATEL offers a full line of thru-hole and surface mountable DOSA-Standard Brick converters. The TB, SB, E,B QB, HB and FB series of open frame and encapsulated isolated 1/32nd, 1/16th, 1/8th, quarter, half or full-bricks, operate over a 2:1, 4:1 or even 8:1 input voltage range. These DC-DC converters maintain regulation from no load to 700 Watts and meet the Basic Insulation requirements with 1500

to 2250VDC I/O isolation voltage rating. An on-board “Pi” LC filter provides EMI suppression. All models are suitable for distributed power architectures, telecommunications, battery operated equipment and industrial applications. Our extensive testing and qualification process ensures reliable DC-DC converter for your application.

FEATURES

- DOSA standard thru-hole or SMT footprints
- Open frame and baseplate models
- On/Off Positive or Negative Logic control
- -40°C to +85°C operation with no derating
- Remote Sense and output voltage trim
- Meets UL94, V-0 flammability rating
- Input differential “Pi” LC-filter, withstands 100V input transients
- OTP, OCP, OVP & UVLO protection – Auto-restart
- Meets conductive EMI EN55022 class B with external filter

AVAILABLE OPTIONS

- Customizable input / output available
- 2:1, 4:1 input range models
- Heatsink , customizable packaging
- UL/CSA60950-1, TUV per IEC/EN60950-1, 2nd edition

Contact Datel for other DOSA-footprint series

- INPUT RANGES: 2:1, 4:1 & 8:1 (Half-Brick)
- COST SAVING, LOWER POWER

TB-SERIES: 1/32-Brick

Power	Input Voltage Nominal	Input Voltage Range	Output Voltage	Output Current Max	Output Current Min	Efficiency	Ripple ² (P-P)	Line Regulation	Load Regulation	Options ¹	DATEL Part #
Watts	Volts	Volts	Volts	Amps	Amps	%					
14.4	24	10-36	1.8	8	0	82	30	± 0.1%	± 0.1 %	S,N,P,E	TB22S1.8-8
19.8	24	10-36	3.3	6	0	84	35	± 0.1%	± 0.1%	S,N,P,E	TB22S3.3-6
20	24	10-36	5	4	0	85	50	± 0.1%	± 0.1%	S,N,P,E	TB22S5-4
24	24	10-36	12	2	0	86	65	± 0.1%	± 0.1%	S,N,P,E	TB22S12-2
14.4	48	18-72	1.8	8	0	82	30	± 0.1%	± 0.1%	S,N,P,E	TB45S1.8-8
19.8	48	18-72	3.3	6	0	84	35	± 0.1%	± 0.1%	S,N,P,E	TB45S3.3-6
20	48	18-72	5	4	0	85	50	± 0.1%	± 0.1%	S,N,P,E	TB45S5-4
24	48	18-72	12	2	0	86	65	± 0.1%	± 0.1%	S,N,P,E	TB45S12-2

SB-SERIES: 1/16 Brick

Power	Input Voltage Nominal	Input Voltage Range	Output Voltage	Output Current Max	Output Current Min	Efficiency	Ripple ³ (P-P)	Line Regulation	Load Regulation	Options ¹	DATEL Part #
Watts	Volts	Volts	Volts	Amps	Amps	%					
66	24	18-36V	3.3	20	0	90	40	± 0.1%	± 0.1%	S,N,P,E	SB24S3.3-20
75	24	18-36V	5	15	0	92	50	± 0.1%	± 0.1%	S,N,P,E	SB24S5-15
84	24	18-36V	12	7	0	93	60	± 0.1%	± 0.1%	S,N,P,E	SB24S12-7
75	24	18-36V	15	5.5	0	93	60	± 0.1%	± 0.1%	S,N,P,E	SB24S15-5.5
50	48	36-75V	2.5	20	0	89	40	± 0.1%	± 0.1%	S,N,P,E	SB48S2.5-20
66	48	36-75V	3.3	20	0	90	40	± 0.1%	± 0.1%	S,N,P,E	SB48S3.3-20
100	48	36-75V	5	20	0	92	50	± 0.1%	± 0.1%	S,N,P,E	SB48S5-20
99.6	48	36-75V	12	8.3	0	93	60	± 0.1%	± 0.1%	S,N,P,E	SB48S12-8.3
82.5	48	36-75V	15	5.5	0	93	60	± 0.1%	± 0.1%	S,N,P,E	SB48S15-5.5

1. Options: See Ordering Information on page 10
 2. 0.1uF ceramic and 10uF tantalum capacitive load, 20MHz BW
 3. 1uF ceramic and 10uF tantalum capacitive load, 20MHz BW

DOSA-Compatible DC-DC Brick Series (cont.)

EB-SERIES: 1/8-Brick

Power	Input Voltage Nominal	Input Voltage Range	Output Voltage	Output Current Max	Output Current Min	Efficiency	Ripple ² (P-P)	Line Regulation	Load Regulation	Options ¹	DATEL Part #
Watts	Volts	Volts	Volts	Amps	Amps	%					
99	24	18-36V	3.3	30	0	91	50	± 0.1%	± 0.1%	S,N,P,E,B	EB24S3.3-30
150	24	18-36V	5	30	0	93	60	± 0.1%	± 0.1%	S,N,P,E,B	EB24S5-30
168	24	18-36V	12	14	0	93	65	± 0.1%	± 0.1%	S,N,P,E,B	EB24S12-14
150	24	18-36V	15	10	0	93	70	± 0.1%	± 0.1%	S,N,P,E,B	EB24S15-10
99	48	36-75V	3.3	30	0	91	50	± 0.1%	± 0.1%	S,N,P,E,B	EB48S3.3-30
150	48	36-75V	5	30	0	93	60	± 0.1%	± 0.1%	S,N,P,E,B	EB48S5-30
168	48	36-75V	12	14	0	94	65	± 0.1%	± 0.1%	S,N,P,E,B	EB48S12-14
150	48	36-75V	15	10	0	93	65	± 0.1%	± 0.1%	S,N,P,E,B	EB48S15-10

QB-SERIES: 1/4-Brick

Power	Input Voltage Nominal	Input Voltage Range	Output Voltage	Output Current Max	Output Current Min	Efficiency	Ripple ³ (P-P)	Line Regulation	Load Regulation	Options ¹	DATEL Part #
Watts	Volts	Volts	Volts	Amps	Amps	%					
99	24	9-36V	3.3	30	0	86	100	± 0.2%	± 0.2%	S,N,P,E	QB22S3.3-30
100	24	9-36V	5	20	0	86.5	100	± 0.2%	± 0.2%	S,N,P,E	QB22S5-20
168	24	9-36V	12	8.3	0	86.5	150	± 0.2%	± 0.2%	S,N,P,E	QB22S12-14
150	24	9-36V	24	4.17	0	87	240	± 0.2%	± 0.2%	S,N,P,E	QB22S24-4.1
99	48	18-75V	3.3	30	0	88	100	± 0.2%	± 0.2%	S,N,P,E	QB45S3.3-30
100	48	18-75V	5	20	0	88	100	± 0.2%	± 0.2%	S,N,P,E	QB45S5-20
168	48	18-75V	12	8.3	0	88	150	± 0.2%	± 0.2%	S,N,P,E	QB45S12-14
150	48	18-75V	24	4.17	0	88	240	± 0.2%	± 0.2%	S,N,P,E	QB45S24-4.1

HB-SERIES: 1/2-Brick

Power	Input Voltage Nominal	Input Voltage Range	Output Voltage	Output Current Max	Output Current Min	Efficiency	Ripple ³ (P-P)	Line Regulation	Load Regulation	Options ¹	DATEL Part #
Watts	Volts	Volts	Volts	Amps	Amps	%					
231	24	18-36V	3.3	70	0	88	100	± 0.2%	± 0.2%	S,N,P,E	HB24S3.3-70
350	24	18-36V	5	70	0	89	100	± 0.2%	± 0.2%	S,N,P,E	HB24S5-70
350.4	24	18-36V	12	29.2	0	90.5	120	± 0.2%	± 0.2%	S,N,P,E	HB24S12-29.2
350.4	24	18-36V	24	14.6	0	90.5	280	± 0.2%	± 0.2%	S,N,P,E	HB24S24-14.6
231	48	36-75V	3.3	70	0	89	100	± 0.2%	± 0.2%	S,N,P,E	HB48S3.3-70
350	48	36-75V	5	70	0	91	100	± 0.2%	± 0.2%	S,N,P,E	HB48S5-70
350.4	48	36-75V	12	29.2	0	92.5	120	± 0.2%	± 0.2%	S,N,P,E	HB48S12-29.2
350.4	48	36-75V	24	14.6	0	91.5	280	± 0.2%	± 0.2%	S,N,P,E	HB48S24-14.6

FB-SERIES: Full-Brick

Power	Input Voltage Nominal	Input Voltage Range	Output Voltage	Output Current Max	Output Current Min	Efficiency	Ripple ⁴ (P-P)	Line Regulation	Load ⁴ Regulation	Options ¹	DATEL Part #
Watts	Volts	Volts	Volts	Amps	Amps	%					
600	24	18-36V	12	50	0	88	120	± 0.2%	± 0.5%	S,N,P,E	FB24S12-50
600	24	18-36V	24	25	0	89	240	± 0.2%	± 0.5%	S,N,P,E	FB24S24-25
600	24	18-36V	48	12.5	0	91	480	± 0.2%	± 0.5%	S,N,P,E	FB24S48-12.5
600	48	36-75V	12	50	0	90	120	± 0.2%	± 0.5%	S,N,P,E	FB48S12-50
600	48	36-75V	24	25	0	92	240	± 0.2%	± 0.5%	S,N,P,E	FB48S24-25
600	48	36-75V	48	12.5	0	92	480	± 0.2%	± 0.5%	S,N,P,E	FB48S48-12.5

1. Options: See Ordering Information on page 10

2. 1uF ceramic and 22uF tantalum capacitive load, 20MHz BW

3. 1uF ceramic and 10uF tantalum capacitive load, 20MHz BW

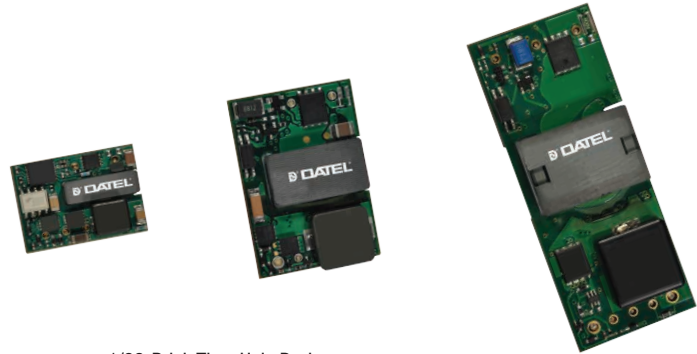
4. 470uF capacitive load

DOSA-Compatible DC-DC Brick Series (cont.)

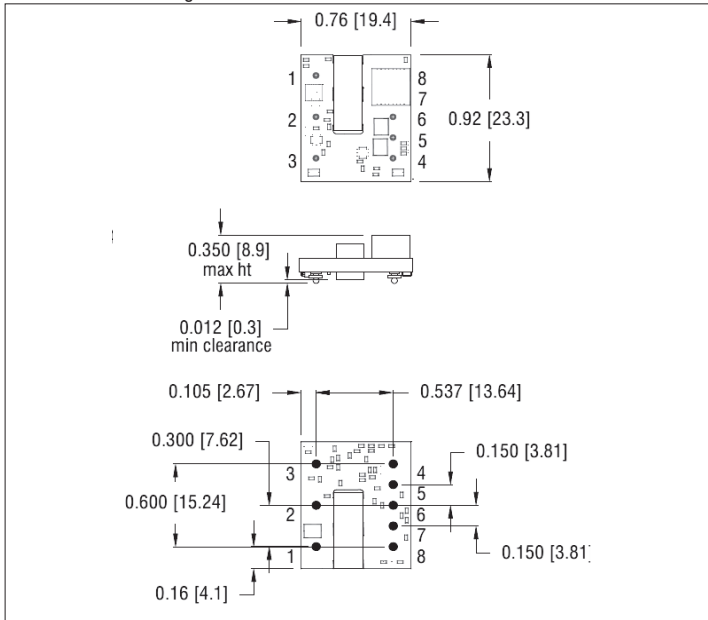
MECHANICAL DRAWINGS

1/32 and 1/16- BRICK, DOSA-COMPATIBLE PINOUT

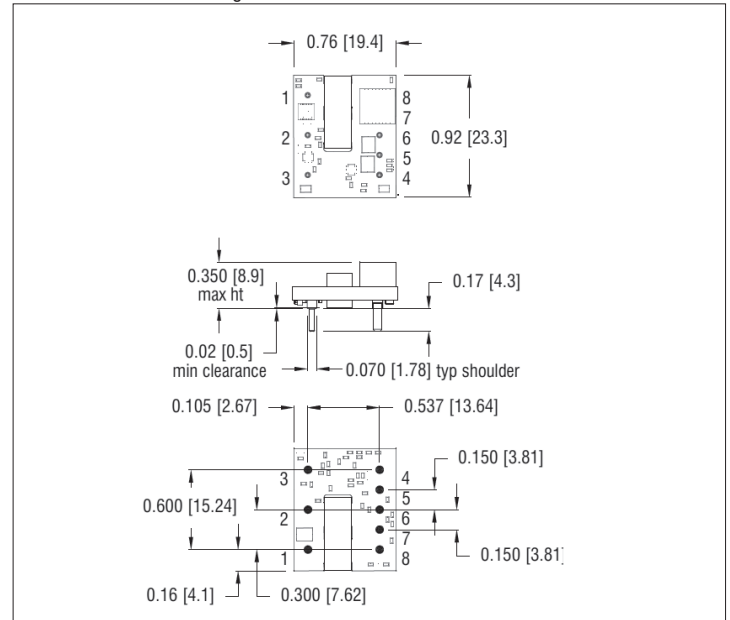
Pin	FUNCTION
1	+Vin
2	Remote On/Off*
3	-Vin
4	-Vo
5	-Sense
6	Trim
7	+Sense
8	+Vo
9	Baseplate (Optional)



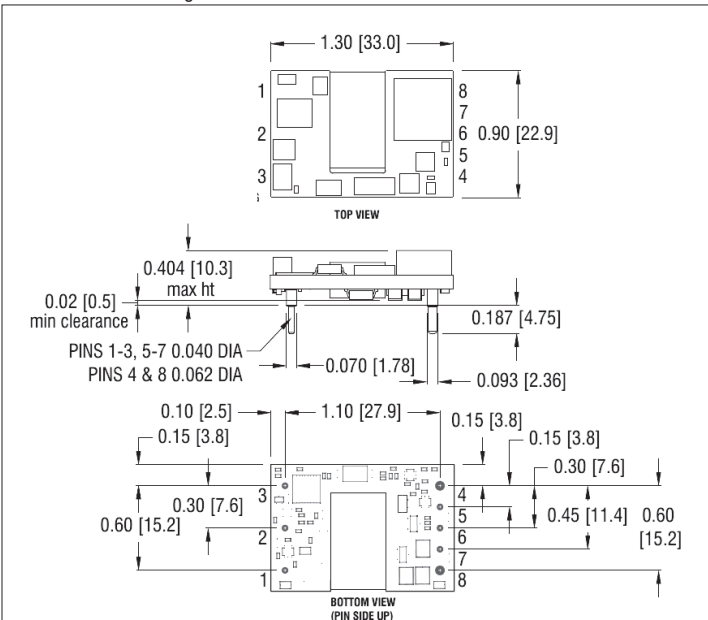
1/32-Brick SMT Package



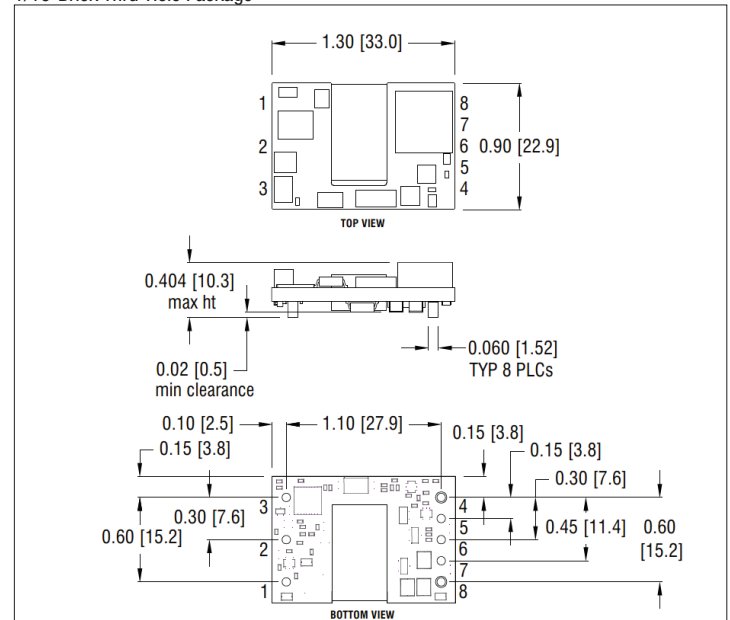
1/32-Brick Thru-Hole Package



1/16-Brick SMT Package



1/16-Brick Thru-Hole Package



DOSA-Compatible DC-DC Brick Series (cont.)

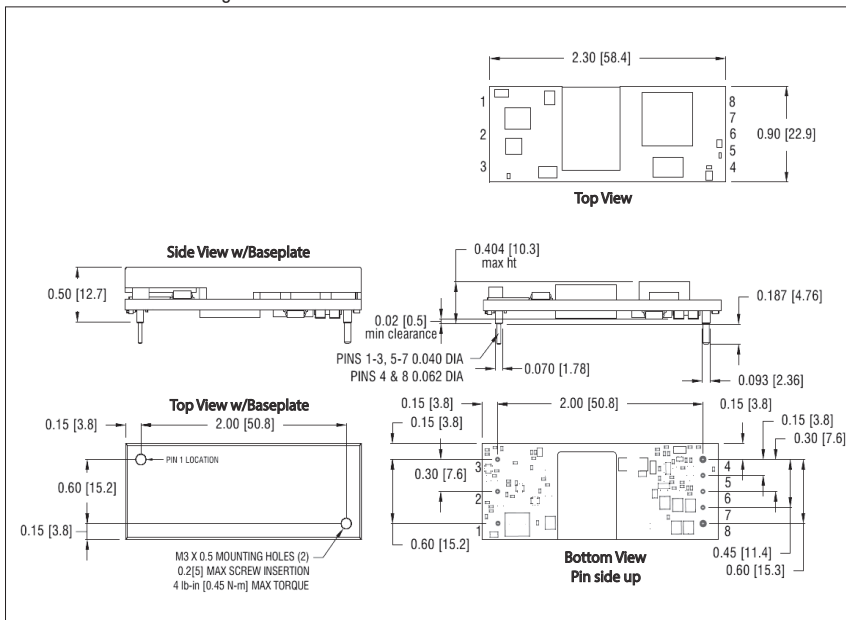
MECHANICAL DRAWINGS

1/8 and 1/4-BRICK, DOSA-COMPATIBLE PINOUT

Pin	FUNCTION
1	+Vin
2	Remote On/Off*
3	-Vin
4	-Vo
5	-Sense
6	Trim
7	+Sense
8	+Vo
9	Baseplate (Optional)



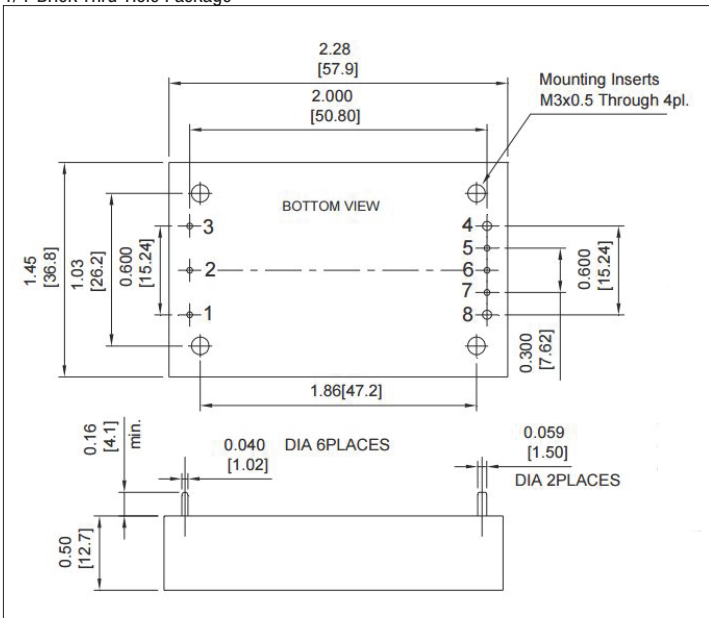
1/8-Brick Thru-Hole Package



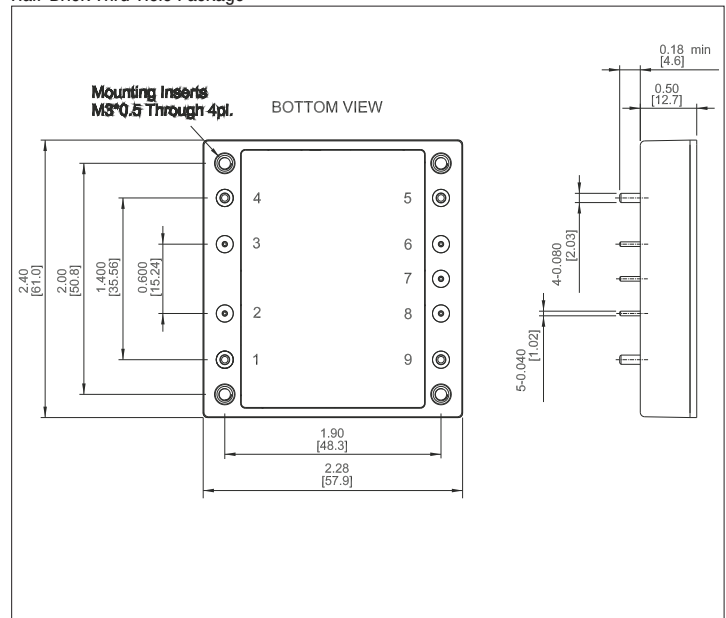
HALF-BRICK, DOSA-COMPATIBLE PINOUT

Pin	FUNCTION
1	+Vin
2	Remote On/Off*
3	Case
4	-Vin
5	-Vo
6	-Sense
7	Trim
8	+Sense
9	+Vo

1/4-Brick Thru-Hole Package



Half-Brick Thru-Hole Package

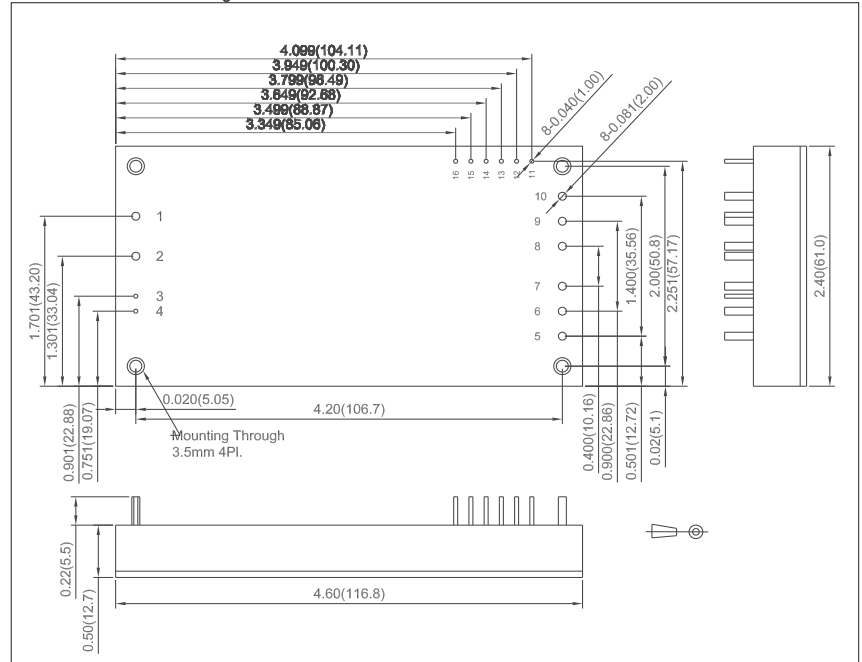


DOSA-Compatible DC-DC Brick Series (cont.)

MECHANICAL DRAWINGS

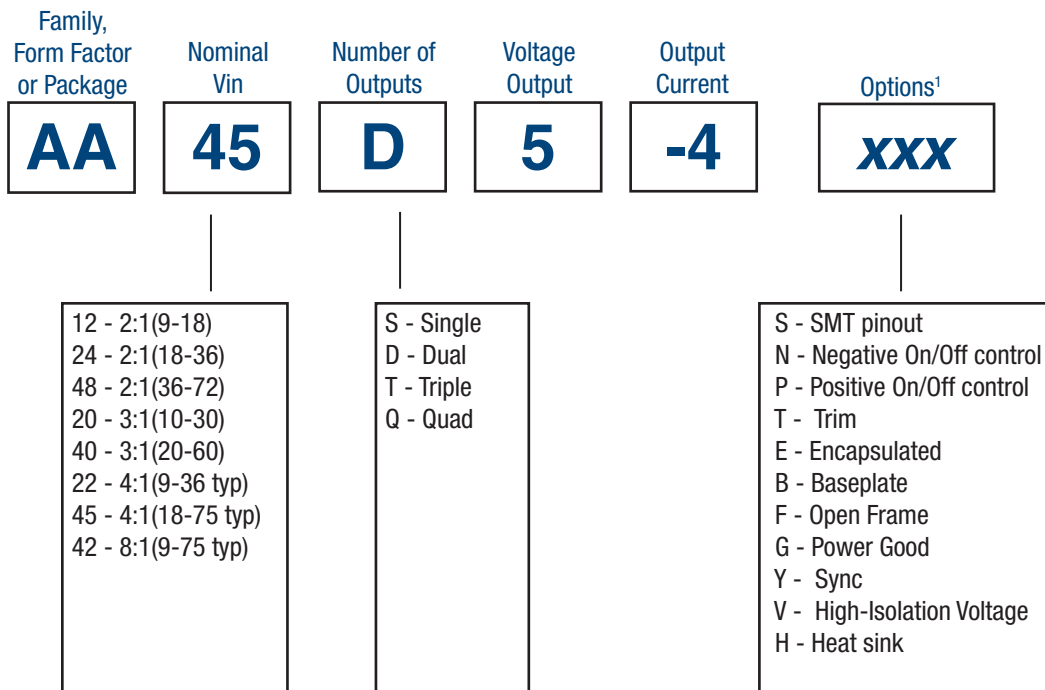


Full-Brick Thru-Hole Package



FULL-BRICK, DOSA-COMPATIBLE PINOUT	
Pin	FUNCTION
1	-Vin
2	+Vin
3	-On/Off
4	+On/Off
5-7	+Vo
8-10	-Vo
11	-Sense
12	+Sense
13	Trim
14	PC/NC
15	IDG
16	AUX

PART NUMBER ORDERING INFORMATION



1. For proper part ordering, enter option suffixes in order listed in table above

DATEL Custom and Special Capabilities

For 45 years DATEL has been recognized worldwide for its engineering excellence, high-quality products and outstanding customer service, producing both standard and custom products for the most demanding applications in the Military, Aerospace, Airborne, and Medical markets.



- Custom/modified standard products
- High Density multi-layer circuit on Al₂O₃ or BeO Ceramic
- Pin-to-pin replacement devices for discontinued products
- Available for low-volume and high-volume applications
- Products guaranteed to be available for long term programs
- Non-RoHS or RoHS equivalent devices
- Special packaging, ceramic, plastic and glass-to-metal seal
- Hermetic seal packaging, CLCC, DIP, Gull Wing, TO, etc.
- Custom screening, testing or temperature ranges
- Special pin-out or footprint
- Custom high-temperature products (-55°C up to +220°C)
- MIL-PRF-38534 certified facility
- Class 8 clean-room assembly and test

Sole sourced or facing obsolete component issues?

Are you in need for a custom product, new supplier, replacement for an obsolete product or special screening? We welcome these opportunities. Feel free to contact us with your requirements.

At DATEL, we recognize that our success is linked with the success of our customers.

...Our best advertisement is a satisfied customer.

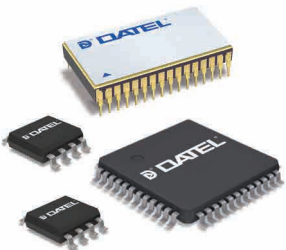


Facility Standards

DATEL is a MIL-PRF-38534 Class H, Class E certified facility, a certification that is held by only 38 facilities throughout the world. In addition to 883 and QL devices, DATEL's commercial and MM grade Multi-Chip Modules are also built in the Class 8 (Class 100,000) clean room located in Mansfield, Massachusetts in the USA. DATEL is also:

- ITAR Registered
- ISO-9001-2008 Registered
- ISO-14001:2004 Certification
- ANSI/ESD S20.20-2007

Other products from DATEL

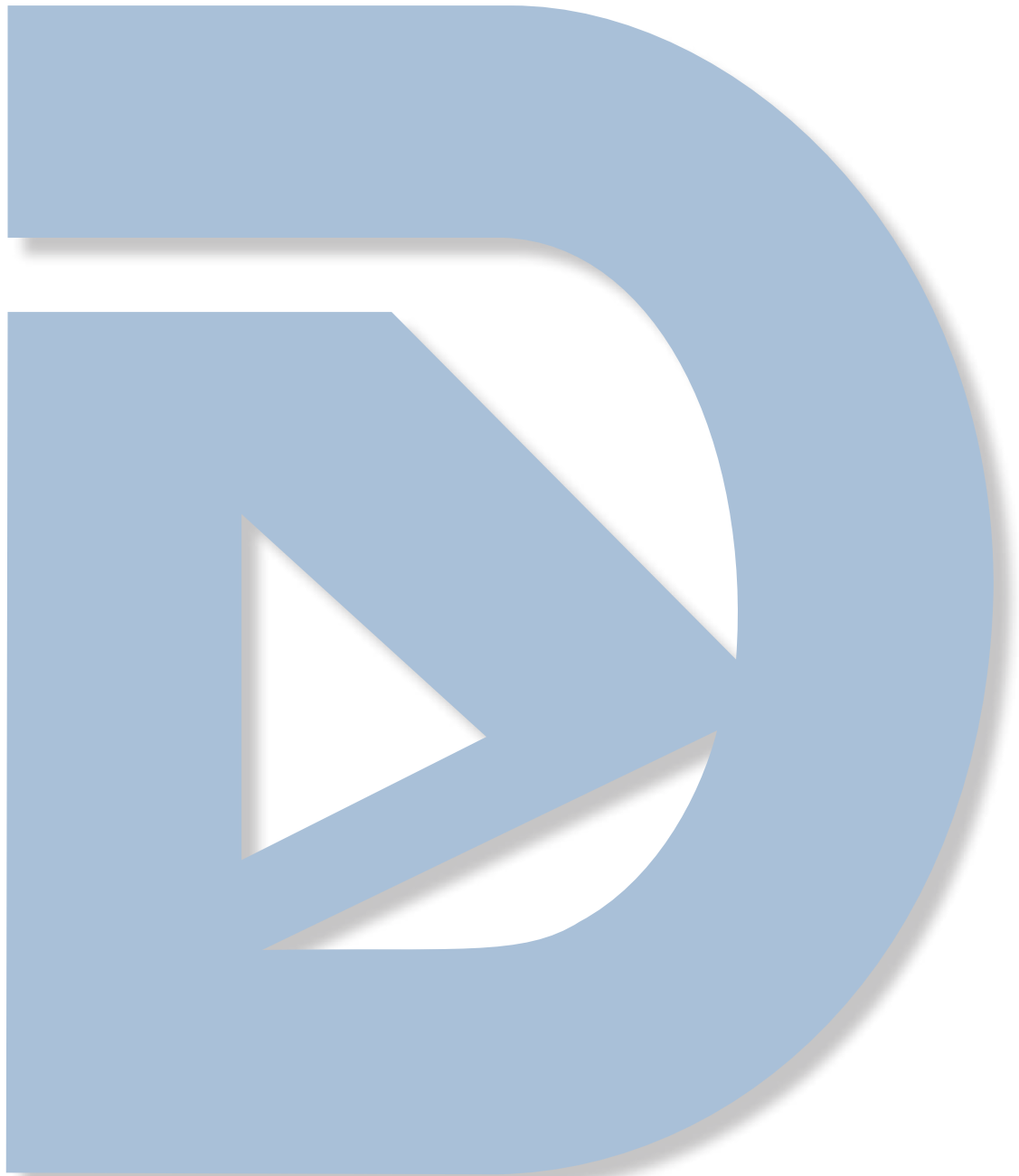


Data Acquisition Products

DATEL's Data Acquisition/Precision Analog standard and custom products are designed to meet the ever-changing requirements of Military, HI-REL, Medical, Scientific and Industrial applications.

Our System-in-a-Package solutions consist of multi-chip IC's on a custom ceramic substrate. These devices are housed in a variety of space saving hermetic and low cost package option.

DATEL's worldwide recognition in high-performance Data Acquisition components is entering its 5th decade, driven in large part by our engineering expertise.



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