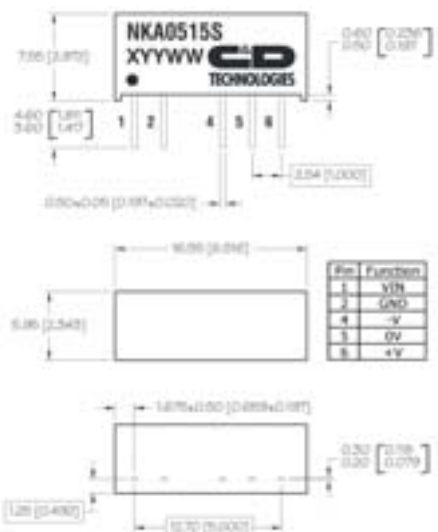


Mfrs. List No.	Order Code	1+	10+	25+	50+	+
IA05 Series	All Order Codes	391.00	367.00	359.00	347.00	--
IA12 Series	All Order Codes	391.00	367.00	359.00	347.00	--
IA24 D Series	All Order Codes	450.00	423.00	414.00	401.00	--
IA24 S Series	All Order Codes	391.00	367.00	359.00	347.00	--
IA48 Series	All Order Codes	450.00	423.00	414.00	401.00	--

**1W Dual Output DC/DC Converters**  
NKA Series



- 3kVdc isolation
- Efficiency up to 82%
- Wide temperature performance at full 1 Watt load, -40°C to 85°C
- Increased power density to 1.35W/cm<sup>2</sup>
- UL 94V-0 package material
- Reduced footprint at 0.98cm<sup>2</sup>
- Dual output from a single input rail
- Industry standard pinout
- Power sharing on output
- 3.3V, 5V & 12V input
- 3.3V, 5V, 9V, 12V and 15V output
- No heatsink required
- Internal SMD construction
- Fully encapsulated with toroidal magnetics
- No external components required MTTF up to 1.6 million hours
- No Electrolytic or Tantalum capacitors

Nominal Input Voltage	Output Voltage	Output Current	Dimensions (WxHxD)	Mfrs. List No.	Order Code
3.3V dc (2.97 - 3.63V dc)	±	±163mA	16.55x7.55x5.95	NKA0303S	874-0097
3.3V dc (2.97 - 3.63V dc)	±	±100mA	16.55x7.55x5.95	NKA0305S	328-6678
3.3V dc (2.97 - 3.63V dc)	±	±42mA	16.55x7.55x5.95	NKA0312S	328-6708
3.3V dc (2.97 - 3.63V dc)	±	±33mA	16.55x7.55x5.95	NKA0315S	328-7579
5V dc (4.5 - 5.5V dc)	±	±163mA	16.55x7.55x5.95	NKA0503S	328-7750
5V dc (4.5 - 5.5V dc)	±	±100mA	16.55x7.55x5.95	NKA0505S	485-9418
5V dc (4.5 - 5.5V dc)	±	±55mA	16.55x7.55x5.95	NKA0509S	874-0100
5V dc (4.5 - 5.5V dc)	±	±42mA	16.55x7.55x5.95	NKA0512S	485-9420
5V dc (4.5 - 5.5V dc)	±	±33mA	16.55x7.55x5.95	NKA0515S	485-9431
12V dc (10.8 - 13.2V dc)	±	±100mA	16.55x7.55x5.95	NKA1205S	485-9443
12V dc (10.8 - 13.2V dc)	±	±55mA	16.55x7.55x5.95	NKA1209S	874-0119
12V dc (10.8 - 13.2V dc)	±	±42mA	16.55x7.55x5.95	NKA1212S	435-3183
12V dc (10.8 - 13.2V dc)	±	±33mA	16.55x7.55x5.95	NKA1215S	485-9455

Mfrs. List No.	Order Code	1+	10+	25+	50+
NKA0303S	874-0097	522.00	507.00	493.00	477.00
NKA0305S	328-6678	522.00	507.00	493.00	477.00
NKA0312S	328-6708	522.00	507.00	493.00	477.00
NKA0315S	328-7579	522.00	507.00	493.00	477.00
NKA0503S	328-7750	522.00	507.00	493.00	477.00
NKA0505S	485-9418	522.00	507.00	493.00	477.00
NKA0509S	874-0100	522.00	507.00	493.00	477.00
NKA0512S	485-9420	522.00	507.00	493.00	477.00
NKA0515S	485-9431	522.00	507.00	493.00	477.00
NKA1205S	485-9443	522.00	507.00	493.00	477.00
NKA1209S	874-0119	522.00	507.00	493.00	477.00
NKA1212S	435-3183	522.00	507.00	493.00	477.00
NKA1215S	485-9455	522.00	507.00	493.00	477.00

**NMV Series 1W DC/DC Converters**  
3kV Isolation



- 3kV dc input/output isolation
- Miniature SIP package
- Efficiency to 79%
- Power density 0.89W/cm
- No heatsink or external components required
- Package to UL94V-0
- Fully encapsulated
- RoHS Compliant

Single Output	Mfrs. List No.	Order Code	Connections
5 5V dc 200mA	NMV0505SAC	102-1536	Pin 1 Vin
5 12V dc 84mA	NMV0512SAC	102-1538	Pin 2 GND
5 15V dc 67mA	NMV0515SAC	102-1542	Pin 5 0V out
12 5V dc 200mA	NMV1205SAC	102-1544	
12 12V dc 84mA	NMV1212SAC	102-1546	Pin 7 +V
12 15V dc 67mA	NMV1215SAC	102-1548	

Single Output	Mfrs. List No.	Order Code	Connections
5 ±12V ±42mA	NMV0512SC	102-1541	Pin 2 GND
5 ±15V ±34mA	NMV0515SC	102-1543	Pin 5-V
12 ±5V ±100mA	NMV1205SC	102-1545	Pin 6 0V
12 ±12V ±42mA	NMV1212SC	102-1547	Pin 7 +V
12 ±15V ±34mA	NMV1215SC	102-1549	

Input voltage range 10% Load regulation 10%, 15%, on 5V O/P Output ripple/noise 150mV pK-pK max. Input/Output isolation 3000V dc Operating temperature -40°C to +85°C

For full specification and pin out details contact our Data Department

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Mfrs. List No.	Order Code	1+	5+	10+	25+	+
NMV0505SAC	102-1536	627.00	596.00	566.00	511.00	--
NMV0512SAC	102-1538	627.00	596.00	566.00	511.00	--
NMV0515SAC	102-1542	627.00	596.00	566.00	543.00	--
NMV1205SAC	102-1544	627.00	596.00	566.00	511.00	--
NMV1212SAC	102-1546	627.00	596.00	566.00	511.00	--
NMV1215SAC	102-1548	627.00	596.00	566.00	511.00	--

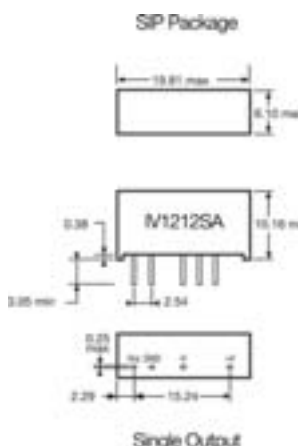
**1W 3kV Isolation DC/DC Converters**  
Single and Dual Output - IV Series



A new low cost range of 1W 3kV isolated dc/dc converters. The IV series is available in both single and dual output versions ranging from 5 Vdc to 15 Vdc with inputs of 5 or 12 Vdc. The units are available in a SIP package style and feature short circuit protection.

- Low cost
- Industry standard pin-out
- 3 kVdc isolation
- -40°C to +85°C @ full load
- UL94V-0 material

Input Range	Nominal ±10%
Line Regulation	1.2%/1% ΔVin
Load Regulation	±8% 20-100% load
Ripple & Noise	100 mV pk-pk max
Short Circuit Protection	1 s max
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +125°C
Isolation Voltage	3000 Vdc min
Efficiency	Up to 80%



Single Output	Output Voltage	Output Current	Mfrs. List No.	Order Code
5 Vdc	5 Vdc	200 mA	IV0505SA	872-8186
5 Vdc	12 Vdc	84 mA	IV0512SA	872-8208
5 Vdc	15 Vdc	66 mA	IV0515SA	872-8224
12 Vdc	5 Vdc	200 mA	IV1205SA	872-8240
12 Vdc	12 Vdc	84 mA	IV1212SA	872-8267
12 Vdc	15 Vdc	66 mA	IV1215SA	872-8283

Dual Output	Output Voltage	Output Current	Mfrs. List No.	Order Code
5 Vdc	±5 Vdc	±100 mA	IV0505S	872-8178
5 Vdc	±12 Vdc	±42 mA	IV0512S	872-8194
5 Vdc	±15 Vdc	±33 mA	IV0515S	872-8216
12 Vdc	±5 Vdc	±100 mA	IV1205S	872-8232
12 Vdc	±12 Vdc	±42 mA	IV1212S	872-8259
12 Vdc	±15 Vdc	±33 mA	IV1215S	872-8275

Mfrs. List No.	Order Code	1+	10+	25+	50+	+
IV0505SA	872-8186	455.00	427.00	418.00	405.00	--
IV0512SA	872-8208	455.00	427.00	418.00	405.00	--
IV0515SA	872-8224	489.00	459.00	449.00	435.00	--
IV1205SA	872-8240	455.00	427.00	418.00	405.00	--
IV1212SA	872-8267	455.00	427.00	418.00	405.00	--
IV1215SA	872-8283	455.00	427.00	418.00	405.00	--

Mfrs. List No.	Order Code	1+	10+	25+	50+	+
IV0505S	872-8178	489.00	459.00	449.00	435.00	--
IV0512S	872-8194	489.00	459.00	449.00	435.00	--
IV0515S	872-8216	489.00	459.00	449.00	435.00	--
IV1205S	872-8232	489.00	459.00	449.00	435.00	--
IV1212S	872-8259	489.00	459.00	449.00	435.00	--
IV1215S	872-8275	489.00	459.00	449.00	435.00	--

Power Supplies & DC to DC Convertors

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Compliant Non-compliant Limited stock - RoHS replacement available