

PCB Mounting DC to DC Converter - continued

Isolated 1W Single Output DC/DC Converters - continued

NKE Series - continued

- Fully encapsulated with toroidal magnetics
- No external components required
- No Electrolytic or Tantalum capacitors
- MTTF up to 2.4 million hours

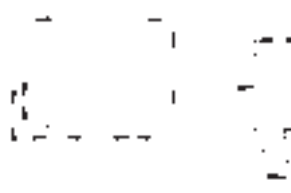
Nominal Input Voltage	Output Voltage	Output Current	Dimensions (WxHxD)	Mfrs. List No.	Order Code
3.3V dc (2.97 - 3.63V dc)	3.3V dc	303mA	11.48x7.46x6.00	NKE0303SC	117-5765
5V dc (4.5 - 5.5V dc)	3.3V dc	303mA	11.48x7.46x6.00	NKE0503SC	117-5767
5V dc (4.5 - 5.5V dc)	5V dc	200mA	11.48x7.46x6.00	NKE0505SC	117-5757
5V dc (4.5 - 5.5V dc)	9V dc	111mA	11.48x7.46x6.00	NKE0509SC	117-5768
5V dc (4.5 - 5.5V dc)	12V dc	83mA	11.48x7.46x6.00	NKE0512SC	117-5754
5V dc (4.5 - 5.5V dc)	15V dc	66mA	11.48x7.46x6.00	NKE0515SC	117-5759
12V dc (10.8 - 13.2V dc)	5V dc	200mA	11.48x7.46x6.00	NKE1205SC	117-5756
12V dc (10.8 - 13.2V dc)	9V dc	111mA	11.48x7.46x6.00	NKE1209SC	117-5769
12V dc (10.8 - 13.2V dc)	12V dc	83mA	11.48x7.46x6.00	NKE1212SC	117-5758
12V dc (10.8 - 13.2V dc)	15V dc	66mA	11.48x7.46x6.00	NKE1215SC	117-5760

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Mfrs. List No.	Order Code	Price Each			
		1+	10+	25+	50+
NKE0303SC	117-5765	522.00	507.00	493.00	477.00
NKE0503SC	117-5767	522.00	507.00	493.00	477.00
NKE0505SC	117-5757	522.00	507.00	493.00	477.00
NKE0509SC	117-5768	522.00	507.00	493.00	477.00
NKE0512SC	117-5754	504.00	-	-	-
NKE0515SC	117-5759	522.00	507.00	493.00	477.00
NKE1205SC	117-5756	522.00	507.00	493.00	477.00
NKE1209SC	117-5769	522.00	507.00	493.00	477.00
NKE1212SC	117-5758	522.00	507.00	493.00	477.00
NKE1215SC	117-5760	522.00	507.00	493.00	477.00

NMF series 1W DC/DC converters

Regulated Output - 1kV Isolation



Note: Pin 5 should be NC when not used

Specific versions are available for use with flash memory devices. All units feature a control pin, used to control the flash memory programming voltage.

- 1kVdc isolation
 - UL 94V-0 package material
 - Fully encapsulated
 - Compact size
 - No heatsink or external components required
 - Power density 0.85W/cm³
 - RoHS Compliant
- | Nominal input voltage | 5,12, 24V | Output voltage accuracy | +10%, -7.5% (10% to 100% load) |
|---|-----------|-------------------------|--------------------------------|
| Input voltage range | ±5% | Output ripple and noise | 60mV pk to pk |
| Load voltage regulation (10% to 100% full load) | 1.5% max | Efficiency | >50% |

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Vin	Vo	Mfrs. List No.	Order Code	Price Each				+
				1+	10+	25+	50+	
5	5	NMF0505SC	102-1474	627.00	589.00	554.00	480.00	--
5	12	NMF0512SC	102-1475	627.00	589.00	554.00	480.00	--
5	15	NMF0515SC	102-1476	627.00	589.00	554.00	480.00	--
12	5	NMF1205SC	102-1477	627.00	589.00	554.00	480.00	--
12	12	NMF1212SC	102-1478	627.00	589.00	554.00	510.00	--
12	15	NMF1215SC	102-1479	627.00	589.00	554.00	510.00	--
24	5	NMF2405SC	102-1480	721.00	677.00	638.00	551.00	--
24	12	NMF2412SC	102-1481	721.00	677.00	638.00	551.00	--
24	15	NMF2415SC	102-1482	721.00	677.00	638.00	551.00	--

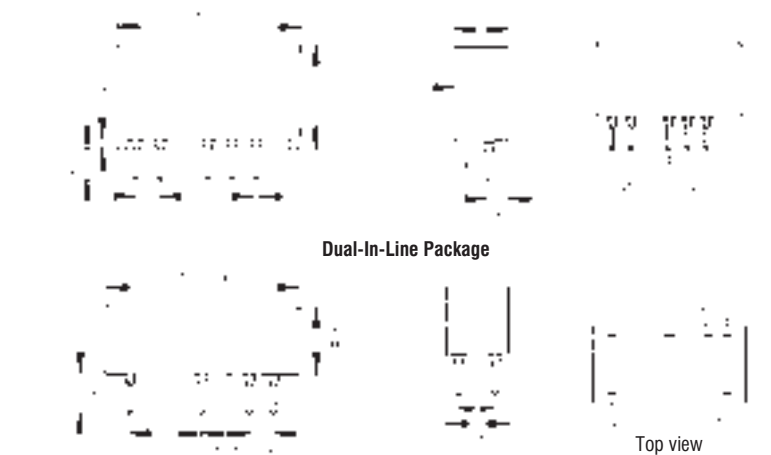
NMA Series 1W DC/DC converters - Dual o/p

5, 12, 24 or 48V Input - 1kV Isolation



- Dual output from a single input rail
- Industry standard pinout
- SIL and DIL package styles
- Efficiency to 78%
- Power sharing on output
- Power density 0.85W/cm³
- UL 94V-0 package material
- No heatsink or external components required
- RoHS Compliant

Single-In-Line Package



Dual-In-Line Package

Top view

Nominal input voltage 5, 12, 24, 48V
 Input voltage range ±10% (10% to 100% load)
 Output ripple and noise 75mV pk to pk (5, 12, 24, 48V)
 Output voltage accuracy +10%, -7.5%
 Load voltage regulation ±10% (5, 12, 24, 48V) (min. load 10%)

SIL Package				DIL Package			
Vin	Vo	Mfrs. List No.	Order Code	Mfrs. List No.	Order Code		
5	±5	NMA0505SC	102-1428	NMA0505DC	102-1427		
5	±9	NMA0509SC	102-1429				
5	±12	NMA0512SC	102-1431	NMA0512DC	102-1430		
5	±15	NMA0515SC	102-1433	NMA0515DC	102-1432		
12	±5	NMA1205SC	102-1435	NMA1205DC	102-1434		
12	±9	NMA1209SC	102-1437				
12	±12	NMA1212SC	102-1439				
12	12			NMA1212DC	102-1438		
12	±15	NMA1215SC	102-1441	NMA1215DC	102-1440		
24	±5	NMA2405SC	102-1443	NMA2405DC	102-1442		
24	±12	NMA2412SC	102-1445	NMA2412DC	102-1444		
24	±15	NMA2415SC	102-1447	NMA2415DC	102-1446		
48	±5	NMA4805SC	102-1449				
48	±12	NMA4812SC	102-1451				

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Order Code	Price Each				+
	1+	10+	25+	50+	
NMA05 Series All Order Codes	501.00	476.00	453.00	408.00	--
NMA12 Series All Order Codes	501.00	476.00	453.00	408.00	--
NMA24 Series All Order Codes	577.00	548.00	520.00	469.00	--
NMA48 Series All Order Codes	577.00	536.00	488.00	438.00	--

1W Isolated DC/DC Converters

Dual Output - IA Series



A new low cost range of 1W isolated dc/dc converters. The IA series has dual outputs ranging from ±5Vdc to ±15Vdc with inputs of 5, 12, 24 or 48 Vdc. The units are available in both SIP and DIP package styles and feature short circuit protection.



- Low cost
- Industry standard pin-out
- 1 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% 20-80% load
Ripple & Noise	75 mV pk-pk
Short Circuit Protection	1 s max
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +125°C
Isolation Voltage	1000 Vdc min
Efficiency	Up to 80%

SIP Package			DIP Package			
Input Voltage	Output Voltage	Output Current	Mfrs. List No.	Order Code	Mfrs. List No.	Order Code
5 Vdc	±5 Vdc	±100 mA	IA0505S	872-7473	IA0505D	872-7465
5 Vdc	±9 Vdc	±55 mA	IA0509S	872-7481	-	-
5 Vdc	±12 Vdc	±42 mA	IA0512S	872-7503	IA0512D	872-7490
5 Vdc	±15 Vdc	±33 mA	IA0515S	872-7520	IA0515D	872-7511
12 Vdc	±5 Vdc	±100 mA	IA1205S	872-7546	IA1205D	872-7538
12 Vdc	±9 Vdc	±55 mA	IA1209S	872-7554	-	-
12 Vdc	±12 Vdc	±42 mA	IA1212S	872-7570	IA1212D	872-7562
12 Vdc	±15 Vdc	±33 mA	IA1215S	872-7597	IA1215D	872-7589
24 Vdc	±5 Vdc	±100 mA	IA2405S	872-7619	IA2405D	872-7600
24 Vdc	±12 Vdc	±42 mA	IA2412S	872-7635	IA2412D	872-7627
24 Vdc	±15 Vdc	±33 mA	IA2415S	872-7651	IA2415D	872-7643
48 Vdc	±5 Vdc	±100 mA	IA4805S	872-7660	-	-
48 Vdc	±12 Vdc	±42 mA	IA4812S	872-7678	-	-

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