

## Isolated 1W Dual Output NMJ Series



- BS EN 60950 certified
- Dual output
- 5.2KVDC isolation
- Efficiency to 80%
- 5V & 12V input
- 5V, 9V, 12V and 15V output
- Power sharing
- Toroidal magnetics
- Internal SMD construction
- No heatsink required
- UL 94V-0 package material
- SIP package style



Pin out specification	Nominal Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Part No.	Order Code
Pin 1 Vin	5	5	±100	NMJ0505S	305-8347
Pin 2 GND	5	9	±55	NMJ0509S	305-8359
Pin 5 -V	5	12	±42	NMJ0512S	305-8360
Pin 6 OV	5	15	±33	NMJ0515S	305-8372
Pin 7 +V	12	5	±100	NMJ1205S	305-8384
	12	9	±55	NMJ1209S	305-8396
	12	12	±42	NMJ1212S	305-8402
	12	15	±33	NMJ1215S	305-8414

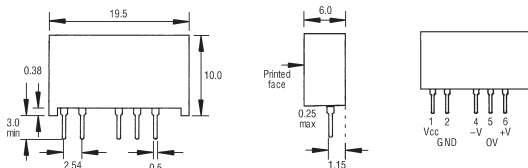
PS195

		Price Each				
		1+	10+	25+	50+	100+
Order Code						
NMJ Series	All Order Codes					

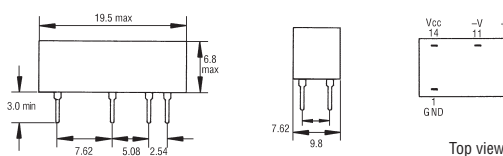
## 1W – Dual Output NMA Series 5, 12, 24 or 48V Input – 1kV Isolation



### Single-In-Line Package



### Dual-In-Line Package



- Dual output from a single input rail
- Industry standard pinout
- SIL and DIL package styles
- Efficiency to 80%
- Power sharing on output

- Power density 0.85W/cm<sup>2</sup>
- UL 94V-0 package material
- No heatsink or external components required

Nominal input voltage	5, 12, 24, 48V	Output voltage accuracy	+10%, -7.5%
Input voltage range	±10% (10% to 100% load)	Load voltage regulation	(min. load 10%) ±10% (5, 12, 24, 48V)
Output ripple and noise	75mV pk to pk (5, 12, 24, 48V)	Efficiency	>65%

SIL Package				DIL Package			
Vin	Vo	Mfrs. List No.	Order Code	Mfrs. List No.	Order Code		
5	±5	NMA0505S	330-735	NMA0505D	330-840		
5	±9	NMA0509S	330-747	—	—		
5	±12	NMA0512S	330-759	NMA0512D	330-863		
5	±15	NMA0515S	330-760	NMA0515D	330-875		
12	±5	NMA1205S	330-772	NMA1205D	330-887		
12	±9	NMA1209S	330-784	—	—		
12	±12	NMA1212S	330-796	NMA1212D	330-905		
12	±15	NMA1215S	330-802	NMA1215D	330-917		
24	±5	NMA2405S	330-814	NMA2405D	330-929		
24	±12	NMA2412S	330-826	NMA2412D	253-431		
24	±15	NMA2415S	330-838	NMA2415D	253-443		
48	±5	NMA4805S	226-853	—	—		
48	±12	NMA4812S	226-865	—	—		

PS033

		Price Each				
		1+	10+	25+	50+	100+
Order Code						
NMA05 Series	All Order Codes					
NMA12 Series	All Order Codes					
NMA24 Series	All Order Codes					
NMA48 Series	All Order Codes					

## 1W – Single/ Dual Output NMV Series 3kV Isolation



- 3kV dc input/output isolation
- Miniature SIP package
- Short circuit protection
- Efficiency to 80%
- Power density 0.89W/cm
- No heatsink or external components required
- Package to UL94V-0
- Fully encapsulated



Single Output	Mfrs. List No.	Order Code	Connections
Vin Output			
5 5V 200mA	NMV0505SA	589-810	Pin 1 Vin
5 12V 84mA	NMV0512SA	589-822	Pin 2 GND
5 15V 67mA	NMV0515SA	589-834	Pin 5 OV out
12 5V 200mA	NMV1205SA	604-586	Pin 6 N/A
12 12V 84mA	NMV1212SA	604-859	Pin 7 +V
12 15V 67mA	NMV1215SA	604-860	

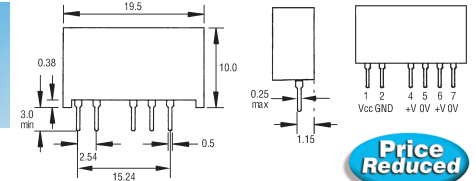
Input voltage range	10%	Input/Output isolation	300mV dc
Load regulation	10%, 15%, on 5V O/P	Operating temperature	0C to 70°C
Output ripple/noise	150mV pK-pK max.		

For full specification and pin out details contact our Data Department

PS099

		Price Each					
		1+	5+	10+	25+	50+	100+
Order Code							
Single output	All Order Codes						
Dual output	All Order Codes						

## 1W – Dual Isolated Output NMD05 Series 1kV Isolation, Input to Output & Output to Output



- Twin independent outputs
- Output/output isolation 1kV dc
- Power sharing on outputs
- Input/output isolation 1kV dc
- Efficiency to 80%
- Power density 0.85W/cm<sup>2</sup>
- UL94V-0 package material
- No heatsink or external components required

Nominal input voltage	5V	Output voltage accuracy	+10%, -7.5%
Input voltage range	±10%		(10% to 100% load)
Load voltage regulation	+10%, -7.5% (min load 10%)	Output ripple and noise	75mV pk to pk
		Efficiency	65%

PS097

		Price Each				
		1+	10+	25+	50+	100+
Order Code						
NMD05 Series	All Order Codes					

## Isolated 2W Single Output NML Series



- Worlds smallest 2 watt dc to dc converter
- Full 2 watt output power
- Single isolated output
- 1KVDC isolation
- Efficiency to 85%
- 5V & 12V input
- 5V, 9V, 12V and 15V output
- Pin compatible with LME and NME
- Toroidal magnetics
- Internal SMD construction
- No heatsink required
- UL 94V-0 package material
- SIP package style
- No external components



Pin out specification	Nominal Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Part No.	Order Code
Pin 1 GND	5	5	400	NML0505S	305-8128
Pin 2 Vin	5	9	222	NML0509S	305-8270
Pin 3 OV	5	12	167	NML0512S	305-8281
Pin 4 +V	5	15	133	NML0515S	305-8293
	12	5	400	NML1205S	305-8300
	12	9	222	NML1209S	305-8311
	12	12	167	NML1212S	305-8323
	12	15	133	NML1215S	305-8335

PS192

		Price Each				
		1+	10+	25+	50+	100+
Order Code						
NML Series	All Order Codes					

continued