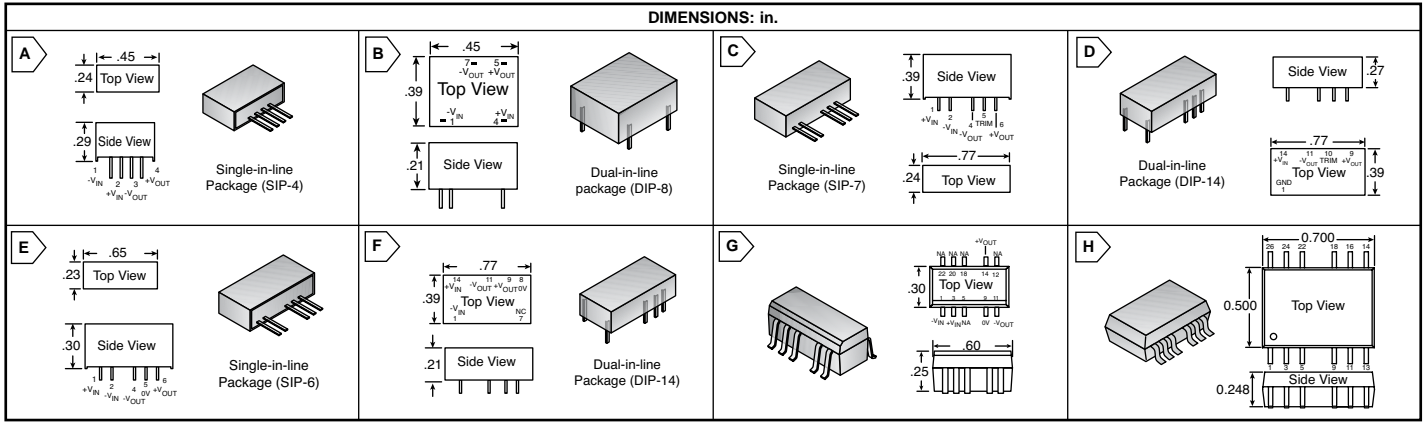


# MURATA POWER SOLUTIONS DC-DC Converters



## NKE SERIES, 1W SINGLE OUTPUT

This series is particularly suited to isolating and/or converting DC power rails.

- RoHS Compliant
- 3kVDC isolation
- Efficiency to 81%
- Fully encapsulated with toroidal magnetics
- No electrolytic or tantalum capacitors
- UL 94V-0 package material



For quantities of 50 and up, call for quote.

MOUSER STOCK NO.	MPS Part No.	Fig.	Input Volts	Output Volts	Io (mA)	Price Each			
						1	5	10	25
<b>SIP</b>									
580-NKE0303SC	NKE0303SC	A	3.3	3.3	303				
580-NKE0305SC	NKE0305SC	A	3.3	5	200				
580-NKE0503SC	NKE0503SC	A	5	3.3	303				
580-NKE0505SC	NKE0505SC	A	5	5	200				
580-NKE0505SEC	NKE0505SEC	A	5	5	200				
580-NKE0509SC	NKE0509SC	A	5	9	111				
580-NKE0512SC	NKE0512SC	A	5	12	83				
580-NKE0515SC	NKE0515SC	A	5	15	66				
580-NKE1205SC	NKE1205SC	A	12	5	200				
580-NKE1209SC	NKE1209SC	A	12	9	111				
580-NKE1212SC	NKE1212SC	A	12	12	83				
580-NKE1215SC	NKE1215SC	A	12	15	66				
<b>DIP</b>									
580-NKE0303DC	NKE0303DC	B	3.3	3.3	303				
580-NKE0305DC	NKE0305DC	B	3.3	5	200				
580-NKE0503DC	NKE0503DC	B	5	3.3	303				
580-NKE0505DC	NKE0505DC	B	5	5	200				
580-NKE0509DC	NKE0509DC	B	5	9	111				
580-NKE0512DC	NKE0512DC	B	5	12	83				
580-NKE0515DC	NKE0515DC	B	5	15	66				
580-NKE1205DC	NKE1205DC	B	12	5	200				
580-NKE1209DC	NKE1209DC	B	12	9	111				
580-NKE1212DC	NKE1212DC	B	12	12	83				
580-NKE1215DC	NKE1215DC	B	12	15	66				

## NMF SERIES, ISOLATED 1W REGULATED SINGLE OUTPUT

The NMF series of DC-DC converters is used where a tightly regulated supply is required. They are ideal for situations where the input voltage is not tightly controlled.

- 1kVDC isolation
- Efficiency to 62%
- No heatsink required
- RoHS Compliant
- SIP & DIP package styles
- Fully encapsulated
- Single isolated output



For quantities of 50 and up, call for quote.

MOUSER STOCK NO.	MPS Part No.	Fig.	Input Volts	Output Volts	Io (mA)	Price Each			
						1	5	10	25
<b>SIP</b>									
580-NMF0505SC	NMF0505SC	C	5	5	100				
580-NMF0509SC	NMF0509SC	C	5	9	100				
580-NMF0512SC	NMF0512SC	C	5	12	83				
580-NMF0515SC	NMF0515SC	C	5	15	67				
580-NMF1205SC	NMF1205SC	C	12	5	100				
580-NMF1212SC	NMF1212SC	C	12	12	83				
580-NMF1215SC	NMF1215SC	C	12	15	67				
580-NMF2405SC	NMF2405SC	C	24	5	100				
580-NMF2412SC	NMF2412SC	C	24	12	83				
580-NMF2415SC	NMF2415SC	C	24	15	67				
580-NMF4805SC	NMF4805SC	C	48	5	100				
<b>DIP</b>									
580-NMF0505DC	NMF0505DC	D	5	5	100				
580-NMF0515DC	NMF0515DC	D	5	15	67				
580-NMF1212DC	NMF1212DC	D	12	12	83				
580-NMF2405DC	NMF2405DC	D	24	5	100				

## NKA SERIES, 1W DUAL OUTPUT

This series is the standard building block for on-board distributed power systems.

- 3kVDC isolation
- Efficiency to 82%
- UL 94V-0 package material
- Fully encapsulated with toroidal magnetics
- No electrolytic or tantalum capacitors
- RoHS Compliant



For quantities of 50 and up, call for quote.

MOUSER STOCK NO.	MPS Part No.	Fig.	Input Volts	Output Volts	Io (mA)	Price Each			
						1	5	10	25
<b>SIP</b>									
580-NKA0305SC	NKA0305SC	E	3.3	±5	±100				
580-NKA0312SC	NKA0312SC	E	3.3	±12	±42				
580-NKA0315SC	NKA0315SC	E	3.3	±15	±33				
580-NKA0505SC	NKA0505SC	E	5	±5	±100				
580-NKA0509SC	NKA0509SC	E	5	±9	±55				
580-NKA0512SC	NKA0512SC	E	5	±12	±42				
580-NKA0515SC	NKA0515SC	E	5	±15	±33				
580-NKA1205SC	NKA1205SC	E	12	±5	±100				
580-NKA1209SC	NKA1209SC	E	12	±9	±55				
580-NKA1212SC	NKA1212SC	E	12	±12	±42				
580-NKA1215SC	NKA1215SC	E	12	±15	±33				
<b>DIP</b>									
580-NKA0505DC	NKA0505DC	F	5	±5	±100				
580-NKA0512DC	NKA0512DC	F	5	±12	±42				

## NTV SERIES, 1W DUAL OUTPUT

This series employs lead frame technology and transfer moulding techniques to bring all of the benefits of IC style packaging to hybrid circuitry.

- 3kVDC isolation (1min.)
- Dual isolated output
- Efficiency to 82%
- RoHS Compliant
- UL 94V-0 package material
- No heatsink required
- Toroidal magnetics
- Plastic encapsulated



For quantities of 50 and up, call for quote.

MOUSER STOCK NO.	MPS Part No.	Fig.	Input Volts	Output Volts	Io (mA)	Price Each			
						1	5	10	25
580-NTV0505MC	NTV0505MC	G	5	±5	±100				
580-NTV0509MC	NTV0509MC	G	5	±9	±55				
580-NTV0515MC	NTV0515MC	G	5	±15	±33				
580-NTV1205MC	NTV1205MC	G	12	±5	±100				
580-NTV1209MC	NTV1209MC	G	12	±9	±55				
580-NTV1212MC	NTV1212MC	G	12	±12	±42				

## NTF SERIES, SMT 1W SINGLE OUTPUT

The NTF series employs leadframe technology and transfer moulding techniques to bring all of the benefits of IC style packaging to hybrid circuitry.

- RoHS Compliant
- 1kVDC Isolation
- Efficiency from 60.5%
- UL 94V-0 package material
- Internal SMD construction magnetics
- MTTF up to 1.4 million hours
- Multi layer ceramic capacitors
- Wide temperature performance -40°C to 85°C
- Power density 0.7W/cm<sup>2</sup>
- Lead frame technology



For quantities of 50 and up, call for quote.

MOUSER STOCK NO.	MPS Part No.	Fig.	Input Volts	Output Volts	Io (mA)	Price Each			
						1	5	10	25
580-NTFS0505MC	NTFS0505MC	H	5	5	200				
580-NTFS0512MC	NTFS0512MC	H	5	12	83				
580-NTFS0515MC	NTFS0515MC	H	5	15	66				
580-NTFS1205MC	NTFS1205MC	H	12	5	200				
580-NTFS1212MC	NTFS1212MC	H	12	12	83				
580-NTFS1215MC	NTFS1215MC	H	12	15	66				
580-NTFS2405MC	NTFS2405MC	H	24	5	200				
580-NTFS2412MC	NTFS2412MC	H	24	12	83				
580-NTFS2415MC	NTFS2415MC	H	24	15	66				