

2 W
DC/DC
SIM-SIL
MODUL

SIM 2 - SIL 7

2 Watt Ultra-Miniatur SIL-Modul-Serie



HN-POWER

Besondere Merkmale	Features
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RoHS 2002/95/EC konform	RoHS 2002/95/EC conform
Ultraminiatur-SIL7-Gehäuse	Ultra mini SIL7 package
Isolationsspannung 1000 VDC/3000 opt.	Isolation voltage max. 1000 VDC / 3000 VDC option
kurzzeitig Kurzschlußfestigkeit	short-time short circuit protection

Technische Daten	Specification
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(bei 25°C Umgebungstemperatur, nominaler Eingangsspannung und Vollast)	(at 25°C ambient temperature, nominal input voltage and full load)
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Eingangsdaten	Input Specifications
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Eingangsspannung	Input voltages	5 / 12 / 15 VDC, ±10%
EingangsfILTER	Input filter	Kondensatoren, capacitors

Ausgangsdaten	Output Specifications
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Leistung	Power	2 Watt
Wirkungsgrad	Efficiency	80% min.
Regelabweichung	Voltage accuracy	Max. ±5%
Restwelligkeit	Ripple and noise	100 mV p-p max.
Laständerung (>= 5V output)	Load regulation (>= 5V output)	±8%(Load=20%-100%)
Laständerung (< 5V output)	Load regulation (< 5V output)	±12%(Load=20%-100%)
Eingangsspannungsänderung	Line regulation	±1.2% von V_{in}

Allgemeine Daten	General Specifications
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MTBF	MTBF	200.000 hours min.
Schaltfrequenz	Switching frequency	100 KHz min.
Betriebstemperatur	Operation temperature	-20°C... +75°C
Lagertemperatur	Storage temperature	-25°C... +125°C
Isolationsspannung	Isolation voltage	1 kVDC min., 3kVDC optional
Gehäusematerial	Casing	Nichtleitender Kunststoff, non conducting plastics
Max. zulässige kapazitive Last	Max. capacitive load	Single output : 680 µF Dual output : 220 µF

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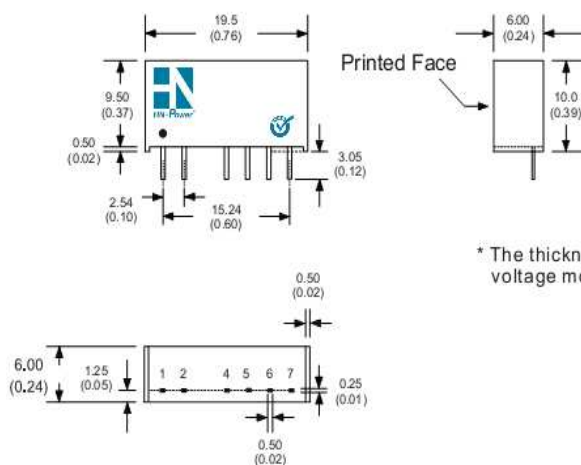
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2 W DC/DC SIM-SIL MODUL

Bestell-Information / Order Information

Modell	Eingang/Input V	Ausgang 1/Output 1 V / mA	Ausgang 2/Output 2 V / mA
SIM2-0505S-SIL7	5	5/400	
SIM2-0512S-SIL7	5	12/166	
SIM2-0515S-SIL7	5	15/132	
SIM2-0905S-SIL7	9	5/400	
SIM2-0912S-SIL7	9	12/166	
SIM2-0915S-SIL7	9	15/132	
SIM2-1205S-SIL7	12	5/400	
SIM2-1212S-SIL7	12	12/166	
SIM2-1215S-SIL7	12	15/132	
SIM2-1505S-SIL7	15	5/400	
SIM2-1512S-SIL7	15	12/166	
SIM2-1515S-SIL7	15	15/132	
SIM2-0512D-SIL7	5	12/82	-12/82
SIM2-0515D-SIL7	5	15/66	-15/66
SIM2-0905D-SIL7	9	5/200	-5/200
SIM2-0912D-SIL7	9	12/82	-12/82
SIM2-0915D-SIL7	9	15/66	-15/66
SIM2-1205D-SIL7	12	5/200	-5/200
SIM2-1212D-SIL7	12	12/82	-12/82
SIM2-1215D-SIL7	12	15/66	-15/66
SIM2-1505D-SIL7	15	5/200	-5/200
SIM2-1512D-SIL7	15	12/82	-12/82
SIM2-1515D-SIL7	15	15/66	-15/66

PIN-Belegung und Zeichnung / Pin assignments & drawing, mm (inch)



PIN CONNECTIONS		
PIN NUMBER	SINGLE	DUAL
1	+V Input	+V Input
2	-V Input	-V Input
4	-V Output	-V Output
5	N.P.	Common
6	+V Output	+V Output
7	N.P.	N.P.

For reduce converter's ripple & noise, it is recommended to add a 4.7 μ F~220 μ F(\pm 4.7 μ F~ \pm 100 μ F for dual output) capacitor in output end. For EMI performance improvement, it is recommended to add a 12 μ H inductor and a 10 μ F~100 μ F capacitor in input end.

