

1 W
DC/DC
SIM-DIL
MODUL

SIM 1 - DIL 8

1 Watt Ultra-Miniatur DIL8-Modul-Serie



HN-POWER

Besondere Merkmale Features

RoHS 2002/95/EC konform	RoHS 2002/95/EC conform
Ultraminiatur-DIL8-Gehäuse	Ultra mini DIL8 package
Isolationsspannung max. 1000 VDC	Isolation voltage max. 1000 V
3000 VDC Isolation optional	3000 VDC isolation option
kurzzeitig Kurzschlußfestigkeit	short-time short circuit protection

Technische Daten Specification

(bei 25°C Umgebungstemperatur)	(at 25°C ambient temperature)
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Eingangsdaten Input Specifications

Eingangsspannung	Input voltages	5 / 12 / 15 / 24 VDC, ±10%
Eingangsfiler	Input filter	Kondensatoren, capacitors

Ausgangsdaten Output Specifications

Leistung	Power	1-1,2 Watt
Wirkungsgrad	Efficiency	80% typ..
Regelabweichung	Voltage accuracy	Max. ±3%(load 100%)
Restwelligkeit	Ripple and noise	100 mV p-p max.
Laständerung (≥5V output)	Load regulation (≥5V output)	±10%, load 20% to 100%
Laständerung (<5V output)	Load regulation (<5V output)	±20%, load 20% to 100%
Eingangsspannungsänderung	Line regulation	±1.2% von V_{in}

Allgemeine Daten General Specifications

Schaltfrequenz	Switching frequency	80 KHz typ.
MTBF	MTBF	>1.121.000 hours
Betriebstemperatur	Operation temperature	-40°C... +85°C
Lagertemperatur	Storage temperature	-40°C... +125°C
Isolationsspannung	Isolation voltage	1000 VDC min, 3000 VDC optional.
Gehäusematerial	Case material	Nonconducting plastics UL94V-0 rated
Max. zulässige kapazitive Last	Max. capacitive load	220 µF(single) , 100µF(dual)

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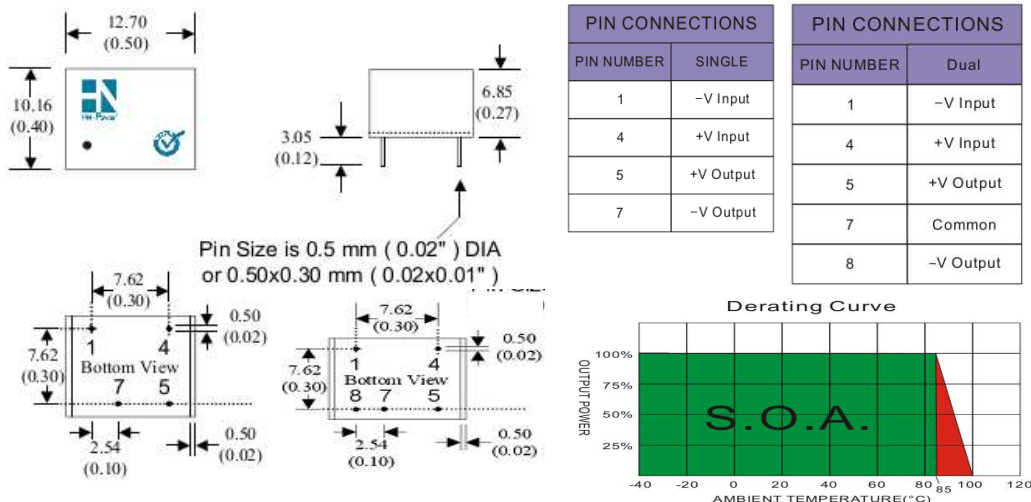
Bestell-Information / Order Information

Modell	Eingang/ Input V	Ausgang 1/ Output 1 V /mA	Ausgang 2/ Output 2 V /mA
SIM1-0505S-DIL8	5	5/200	
SIM1-0512S-DIL8	5	12/100	
SIM1-0515S-DIL8	5	15/85	
SIM1-0524S-DIL8	5	24/50	
SIM1-1205S-DIL8	12	5/200	
SIM1-1212S-DIL8	12	12/100	
SIM1-1215S-DIL8	12	15/85	
SIM1-1224S-DIL8	12	24/50	
SIM1-1505S-DIL8	15	5/200	
SIM1-1512S-DIL8	15	12/100	
SIM1-1515S-DIL8	15	15/85	
SIM1-1524S-DIL8	15	24/50	
SIM1-2405S-DIL8	24	5/200	
SIM1-2412S-DIL8	24	12/100	
SIM1-2415S-DIL8	24	15/85	
SIM1-2424S-DIL8	24	24/50	
SIM1-0505D-DIL8	5	5/100	-5/100
SIM1-0512D-DIL8	5	12/50	-12/50
SIM1-0515D-DIL8	5	15/40	-15/40
SIM1-1205D-DIL8	12	5/100	-5/100
SIM1-1212D-DIL8	12	12/50	-12/50
SIM1-1215D-DIL8	12	15/40	-15/40
SIM1-1505D-DIL8	15	5/100	-5/100
SIM1-1512D-DIL8	15	12/50	-12/50
SIM1-1515D-DIL8	15	15/40	-15/40

MEMO:

Andere Typen und Spannungen auf Anfrage • Other models and configurations on request.

PIN-Belegung und Zeichnung / Pin Assignments & Drawing, mm (inch)



For reduce converter's ripple & noise, it is recommended to add a 4.7µF~100µF capacitor in output end. For EMI performance improvement, it is recommended to add a 12µH inductor and a 10µF~220µF capacitor in input end.

