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Features

- · SIP7 package with industry standard pinout
- Operating temperature range -40 ~ +105°C
- Comply to EN55032 radiated Class A without additional components
- · High efficiency up to 87%
- · Protection: Short circuit(continuous)/Over load
- · 3KVDC I/O isolation
- · Low cost
- · 3 years warranty











Applications

- Telecom/datacom system
- · Wireless network
- Industrial control facility
- Instrument
- Analyzer
- Detector
- Data switch

Description

SPUN02 and DPUN02 series are 2W isolated and unregulated module type DC-DC converter with SIP7 package. It features international standard pins, a high efficiency up to 87%, wide working temperature range -40~+105°C, 3KVDC I/P-O/P isolation voltage, compliance to EN55032 radiated Class A without additional components, short circuit protection, etc. The models account for different input voltage $5V/12V/24V\pm10\%$, and various output voltage, 5V/12V/15V for single output and $\pm5V/\pm12V/\pm15V$ for dual outputs, which are suitable for all kinds of systems, Such as industrial control, telecommunication field, distributed power architecture, and so on.

■ Model Encoding



勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699



WWW.100Y.COM.TW 2W SIP Package DC-DC Unregulated Converter SPUN02 & DPUN02 series

ORDER NO.	INPUT			OUTPUT			
	INPUT VOLTAGE	INPUT CURRENT		OUTPUT	OUTPUT	EFFICIENCY (TYP.)	(MAX.)
	(RANGE)	NO LOAD	FULL LOAD	VOLTAGE	CURRENT		, ,
SPUN02L-05	5V (4.5 ~ 5.5V)	40mA	488mA	5V	0 ~ 400mA	81%	220µF
SPUN02L-12		50mA	473mA	12V	0 ~ 167mA	84%	220µF
SPUN02L-15		55mA	478mA	15V	0 ~ 134mA	84%	220µF
DPUN02L-05		40mA	482mA	±5V	±0~200mA	82%	*100µF
DPUN02L-12		50mA	469mA	±12V	±0~83mA	84%	*100µF
DPUN02L-15		45mA	473mA	±15V	±0~67mA	86%	*100µF
SPUN02M-05		20mA	203mA	5V	0 ~ 400mA	81%	220µF
SPUN02M-12		20mA	192mA	12V	0 ~ 167mA	86%	220µF
SPUN02M-15		20mA	193mA	15V	0 ~ 134mA	86%	220µF
DPUN02M-05		20mA	198mA	±5V	±0~200mA	83%	*100µF
DPUN02M-12		20mA	193mA	±12V	±0~83mA	87%	*100µF
DPUN02M-15		20mA	193mA	±15V	±0~67mA	87%	*100µF
SPUN02N-05	M.M.M.1002	10mA	102mA	5V	0 ~ 400mA	81%	220µF
SPUN02N-12	24V (21.6 ~ 26.4V)	10mA	96mA	12V	0 ~ 167mA	85%	220µF
SPUN02N-15		10mA	95mA	15V	0 ~ 134mA	86%	220µF
DPUN02N-05		10mA	100mA	±5V	±0~200mA	81%	*100µF
DPUN02N-12		10mA	96mA	±12V	±0~83mA	86%	*100µF
DPUN02N-15		10mA	95mA	±15V	±0~67mA	86%	*100µF
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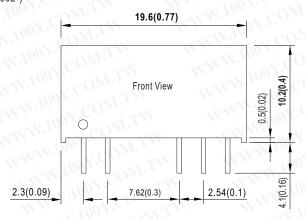


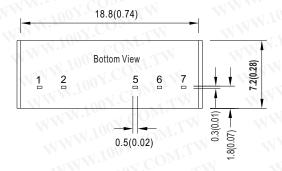
WWW.100Y.COM.TW 2W SIP Package DC-DC Unregulated Converter SPUN02 & DPUN02 series

TER ROTECTION FERNAL POWER DISSIPATION DITAGE ACCURACY ATED POWER PPLE & NOISE Note.2	Internal capacitor Fuse recommended. 5Vin models: 1/500mW ±3.0% max. 2W 100mVp-p(150mV for SPUN02 1.2% for 1% input variation	odels: 18Vdc; 24Vin models: 30Vdd A Slow-Blow Type, 12Vin models: 500mA Slo	ow-Blow Type, 24Vin models: 250mA Slow-Blow T				
ROTECTION TERNAL POWER DISSIPATION DLTAGE ACCURACY ATED POWER PPLE & NOISE Note.2 NE REGULATION Note.4	Fuse recommended. 5Vin models: 1/500mW ±3.0% max. 2W 100mVp-p(150mV for SPUN02 1.2% for 1% input variation	MMM.1007.CO	ow-Blow Type, 24Vin models: 250mA Slow-Blow T				
TERNAL POWER DISSIPATION DETAGE ACCURACY ATED POWER PPLE & NOISE Note.2 NE REGULATION Note.3 DAD REGULATION Note.4	500mW ±3.0% max. 2W 100mVp-p(150mV for SPUN02 1.2% for 1% input variation	MMM.1007.CO	ow-Blow Type, 24Vin models: 250mA Slow-Blow T				
DLTAGE ACCURACY ATED POWER PPLE & NOISE Note.2 NE REGULATION Note.4 DAD REGULATION Note.4	500mW ±3.0% max. 2W 100mVp-p(150mV for SPUN02 1.2% for 1% input variation	MMM.1007.CO	ON TA ON TA WIA				
ATED POWER PPLE & NOISE Note.2 NE REGULATION Note.3 DAD REGULATION Note.4	2W 100mVp-p(150mV for SPUN02 1.2% for 1% input variation	2L-05/12)	ON TW				
PPLE & NOISE Note.2 NE REGULATION Note.3 DAD REGULATION Note.4	100mVp-p(150mV for SPUN02 1.2% for 1% input variation	2L-05/12)	ON TW				
NE REGULATION Note.3 DAD REGULATION Note.4	1.2% for 1% input variation	2L-05/12)	OW JAI				
AD REGULATION Note.4		NAMA SAN	301				
- AN - M	10%	1.2% for 1% input variation					
'ITCHING FREQUENCY (Typ.)	4 10%						
	.) 60KHz						
IORT CIRCUIT	Protection type: Continuous, automatic recovery						
/ERLOAD	Protection type : Recovers automatically after fault condition is removed						
OOLING	Free-air convection						
ORKING TEMP.	-40 ~ +105°C (Refer to "Derating Curve")						
ASE TEMPERATURE	+105°C max.						
ORKING HUMIDITY	20% ~ 90% RH non-condensing						
ORAGE TEMP., HUMIDITY	-55 ~ +125°C, 10 ~ 95% RH non-condensing						
MP. COEFFICIENT	±0.05% / °C (0~85°C)						
LDERING TEMPERATURE	1.5mm from case of 1 ~ 3sec./260°C max.						
BRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes						
FETY STANDARDS	EAC TP TC 004 approved						
THSTAND VOLTAGE	I/P-O/P:3KVDC						
OLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH						
DLATION CAPACITANCE (Typ.)	18pF	100Y.COM	WW. TIOOY.CO. TW				
EMC EMISSION	Parameter	Standard	Test Level / Note				
	Conducted	EN55032(CISPR32)	N/A				
	Radiated	EN55032(CISPR32)	Class A				
EMC IMMUNITY	Parameter	Standard	Test Level / Note				
	ESD	EN61000-4-2	Level 2, ±8KV air, ±4KV conta				
	Radiated Susceptibility	EN61000-4-3	Level 2, 3V/m				
	EFT/Burest	EN61000-4-4	Level 1, 0.5KV				
	Surge	EN61000-4-5	Level 1, 0.5KV Line-Line				
	Conducted	EN61000-4-6	Level 2, 3V(e.m.f.)				
	Magnetic Field	EN61000-4-8	Level 2, 3A/m				
TBF .	3.3Mhrs MIL-HDBK-217F(25°C)						
MENSION (L*W*H)	19.6*7.2*10.2mm (0.77*0.28*0.40 inch)						
ASE MATERIAL	Non-Conductive black plastic (UL 94V-0 rated)						
	2.7g						
	DRKING TEMP. SE TEMPERATURE DRKING HUMIDITY DRAGE TEMP., HUMIDITY MP. COEFFICIENT LDERING TEMPERATURE BRATION FETY STANDARDS THSTAND VOLTAGE DLATION RESISTANCE LATION CAPACITANCE (Typ.) IC EMISSION IC IMMUNITY BF MENSION (L*W*H)	PRKING TEMP. SE TEMPERATURE +105°C max. 20% ~ 90% RH non-condensir -55 ~ +125°C, 10 ~ 95% RH r MP. COEFFICIENT LDERING TEMPERATURE 3RATION 10 ~ 500Hz, 2G 10min./1cycle FETY STANDARDS THSTAND VOLTAGE LATION CAPACITANCE (Typ.) LATION CAPACITANCE (Typ.) Radiated Parameter ESD Radiated Susceptibility EFT/Burest Surge Conducted Magnetic Field 3.3Mhrs MIL-HDBK-217F(25) MENSION (L*W*H) -55 ~ +125°C, 10 ~ 95% RH r +0.05% / °C (0 ~ 85°C) 1.5mm from case of 1 ~ 3sec./ 20 (0 ~ 85°C) 1.5mm from case of 1 ~ 3sec./ 10 ~ 500Hz, 2G 10min./1cycle +0.05% / °C (0 ~ 85°C) 10 ~ 80°C) 11 ~ 10 ~ 10 ~ 10 ~ 10 ~ 10 ~ 10 ~ 10	A0 ~ +105°C (Refer to "Derating Curve") SE TEMPERATURE				

■ Mechanical Specification

- All dimensions in mm(inch)
- Tolerance: $x.x\pm0.25$ mm($x.xx\pm0.01$ ") $x.xx\pm0.13$ mm($x.xxx\pm0.005$ ")
- Pin pitch tolerance: ±0.05mm (±0.002")





■ Pin Configuration

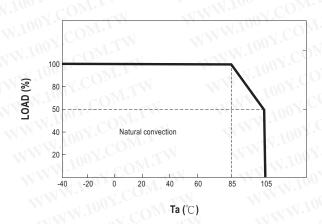
Pin-Out						
Pin No.	SPUN02 (Single output)	DPUN02 (Dual output)				
1	+Vin	+Vin				
2	-Vin	-Vin				
5	-Vout	-Vout				
6	No pin	Common				
7	+Vout	+Vout				

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■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html

■ Derating Curve



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