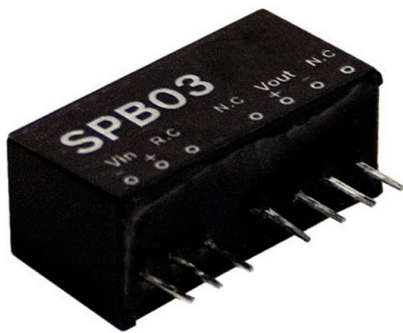


SPB03C-05 Datasheet

www.digi-electronics.com



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	SPB03C-05-DG
Manufacturer	MEAN WELL USA Inc.
Manufacturer Product Number	SPB03C-05
Description	DC DC CONVERTER 5V 3W
Detailed Description	Isolated Module DC DC Converter 1 Output 5V 600mA 36V - 72V Input

This model SPB03C-05 is available at DiGi Electronics.

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RFQ Email: Info@DiGi-Electronics.com

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Purchase and inquiry

Manufacturer Product Number:

SPB03C-05

Series:

SPB03 (3W)

Type:

Isolated Module

Voltage - Input (Min):

36V

Voltage - Output 1:

5V

Voltage - Output 3:

-

Current - Output (Max):

600mA

Voltage - Isolation:

1 kV

Features:

Remote On/Off, OCP, SCP

Efficiency:

78%

Package / Case:

8-SIP Module, 7 Leads

Supplier Device Package:

-

Manufacturer:

MEAN WELL USA Inc.

Product Status:

Obsolete

Number of Outputs:

1

Voltage - Input (Max):

72V

Voltage - Output 2:

-

Voltage - Output 4:

-

Power (Watts):

3 W

Applications:

ITE (Commercial)

Operating Temperature:

-40°C ~ 85°C (With Derating)

Mounting Type:

Through Hole

Size / Dimension:

0.86" L x 0.36" W x 0.44" H (21.8mm x 9.2mm x 11.1mm)

Control Features:

Enable, Active Low

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.40.9580

Moisture Sensitivity Level (MSL):

1 (Unlimited)

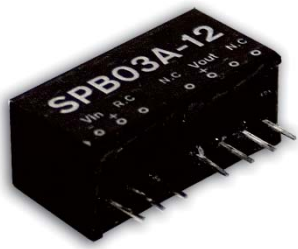
ECCN:

EAR99



3W DC-DC Regulated Single Output Converter

SPB03 series



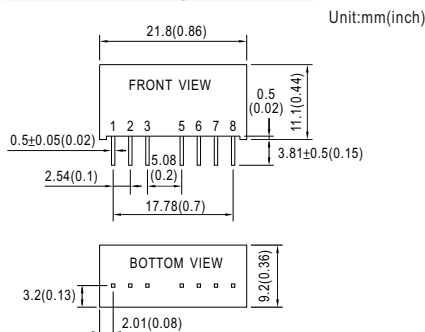
- Features :
 - 2:1 wide input range
 - 1000VDC I/O isolation
 - Built-in remote ON/OFF control
 - Built-in EMI filter
 - Protections: Short circuit / Overload
 - Cooling by free air convection
 - Single in line package
 - 100% full load burn-in test
 - Low cost / High reliability
 - Modified models available: output 3.3V/9V
 - 2 years warranty



SPECIFICATION

ORDER NO.	SPB03E-05	SPB03A-05	SPB03B-05	SPB03C-05	SPB03E-12	SPB03A-12	SPB03B-12	SPB03C-12	SPB03E-15	SPB03A-15	SPB03B-15	SPB03C-15	
OUTPUT	DC VOLTAGE	5V				12V				15V			
	CURRENT RANGE	60 ~ 600mA				25 ~ 250mA				20 ~ 200mA			
	RATED POWER	3W											
	RIPPLE & NOISE (max.) Note.2	50mVp-p				60mVp-p				60mVp-p			
	LINE REGULATION Note.3	±0.5%											
	LOAD REGULATION Note.4	±0.5%											
	VOLTAGE ACCURACY	±2.0%											
	SWITCHING FREQUENCY	100KHz min.											
INPUT	VOLTAGE RANGE	E: 4.5 ~ 9VDC A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC											
	EFFICIENCY (Typ.)	74%	73%	77%	78%	76%	80%	80%	79%	75%	80%	80%	82%
	DC CURRENT	Full load E: 810mA A: 340mA B: 165mA C: 85mA No load E: 110mA A: 40mA B: 20mA C: 10mA											
	FILTER	Capacitor Type											
	REMOTE CONTROL	Power ON : R.C. ~ -Vin < 1VDC or open ; Power OFF : R.C. ~ -Vin > 4VDC											
	PROTECTION	Fuse recommended											
PROTECTION (Note. 5)	OVERLOAD	150 ~ 250% rated output power Protection type : Recovers automatically after fault condition is removed											
	SHORT CIRCUIT	All output equipped with short circuit Protection type : Recovers automatically after fault condition is removed											
ENVIRONMENT	WORKING TEMP.	-40 ~ +85°C (Refer to "Derating Curve")											
	WORKING HUMIDITY	20% ~ 90% RH non-condensing											
	STORAGE TEMP., HUMIDITY	-40 ~ +105°C, 10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.05% / °C (0 ~ 50°C)											
	VIBRATION	10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes											
SAFETY	SAFETY STANDARDS	EAC TP TC 004 approved											
	WITHSTAND VOLTAGE	I/P-O/P:1KVDC											
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH											
	ISOLATION CAPACITANCE	80pF max.											
	EMC EMISSION	Compliance to EN55032 Class B, FCC part 15 Class B, EAC TP TC 020											
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8 light industry level, criteria A, EAC TP TC 020											
	MTBF	600Khrs min. MIL-HDBK-217F(25°C)											
OTHERS	DIMENSION	21.8*9.2*11.1mm or 0.86"*0.36"*0.44" inch (L*W*H)											
	WEIGHT	4.8g											

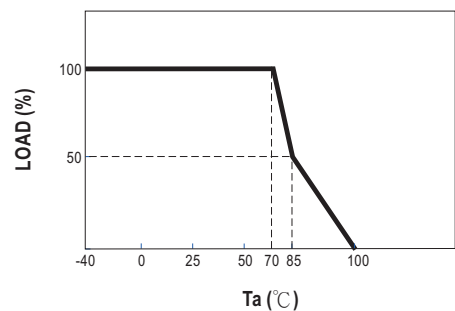
■ Mechanical Specification



■ Pin Configuration

Pin No.	Output
1	-Vin
2	+Vin
3	R.C.
5	N.C.
6	+Vout
7	-Vout
8	N.C.

■ Derating Curve



NOTE

- All parameters are specified at normal input, rated load, 25°C 70% RH ambient.
 - Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
 - Line regulation is measured from low line to high line at rated load.
 - Load regulation is measured from 10% to 100% rated load.
 - Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.
- ※ Product Liability Disclaimer : For detailed information, please refer to <https://www.meanwell.com/serviceDisclaimer.aspx>

OUR CERTIFICATE

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