



Наличие и актуальные цены на

SMT01B-05

<https://www.mean-well.ru/store/SMT01B-05/>



■ Features

- SMD package with industry standard pinout
- 2:1 wide input range
- Operating temperature range -40 ~ +90°C
- Comply to BS EN/EN55032 radiated Class A without additional components
- Protection: Short circuit(continuous)/Over load
- 1.5KVDC I/O isolation
- Optional reel packing
- 3 years warranty

■ Applications

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

■ GTIN CODE

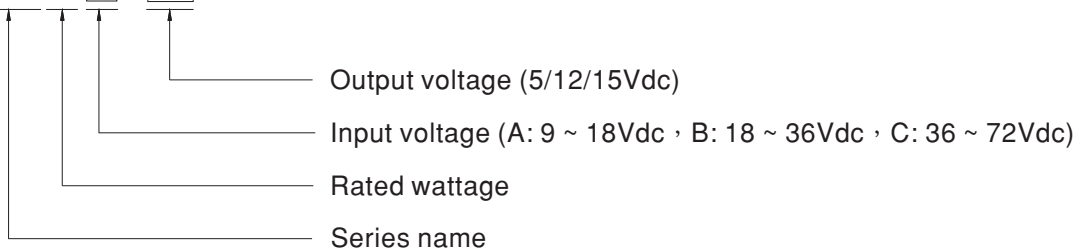
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

■ Description

SMT01 series is 1W isolated and regulated module type DC-DC converter with SMD package. It features international standard pins, wide working temperature range -40~+90°C, 1.5KVDC I/P-O/P isolation voltage, compliance to BS EN/EN55032 radiated Class A without additional components, short circuit protection, etc. The models account for different input voltage 9~18V, 18~36V and 36~72V 2:1 wide input range, and various output voltage, 5V/12V/15V for single output which are suitable for all kinds of systems, Such as industrial control, telecommunication field, distributed power architecture, and so on.

■ Model Encoding

SMT01 **A** - **12**



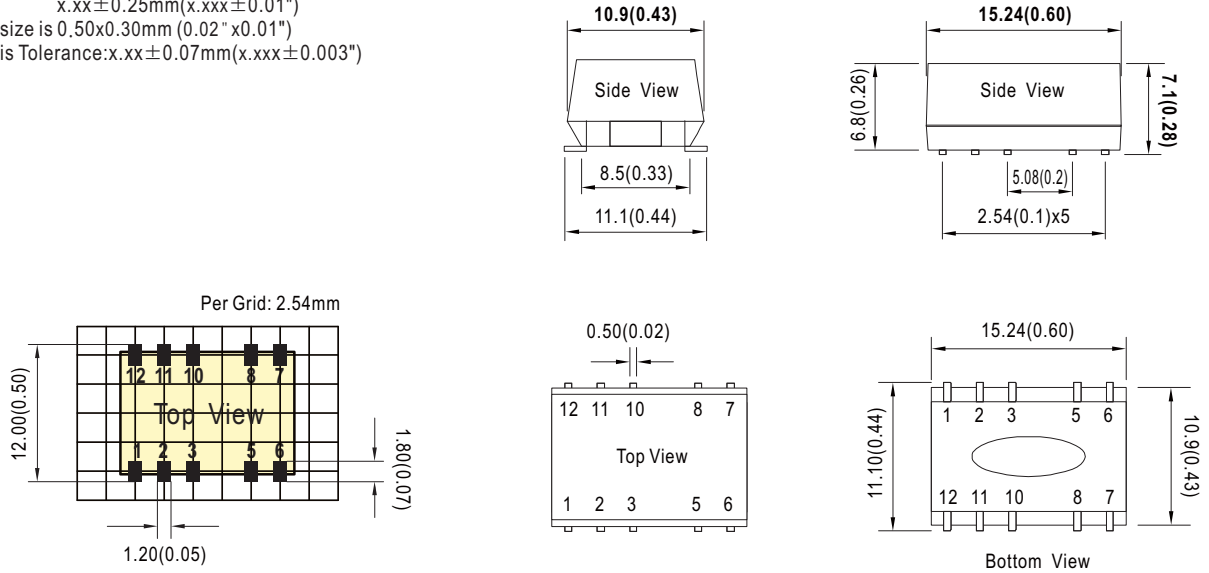
MODEL SELECTION TABLE

ORDER NO.	INPUT			OUTPUT		EFFICIENCY (TYP.)	CAPACITOR LOAD (MAX.)
	INPUT VOLTAGE (RANGE)	INPUT CURRENT		OUTPUT VOLTAGE	OUTPUT CURRENT		
		NO LOAD	FULL LOAD				
SMT01A-05	Normal 12V (9 ~ 18V)	10mA	111mA	5V	20 ~ 200mA	75%	1500μF
SMT01A-12		15mA	111mA	12V	8.3 ~ 83mA	75%	470μF
SMT01A-15		15mA	111mA	15V	6.7 ~ 67mA	75%	470μF
SMT01B-05	Normal 24V (18 ~ 36V)	10mA	56mA	5V	20 ~ 200mA	75%	1500μF
SMT01B-12		12mA	56mA	12V	8.3 ~ 83mA	75%	470μF
SMT01B-15		13mA	56mA	15V	6.7 ~ 67mA	75%	470μF
SMT01C-05	Normal 48V (36 ~ 72V)	5mA	28mA	5V	20 ~ 200mA	75%	1500μF
SMT01C-12		5mA	28mA	12V	8.3 ~ 83mA	75%	470μF
SMT01C-15		6mA	28mA	15V	6.7 ~ 67mA	75%	470μF

SPECIFICATION			
INPUT	VOLTAGE RANGE	A: 9 ~ 18Vdc B: 18 ~ 36Vdc C: 36 ~ 72Vdc	
	FILTER	Internal capacitor	
	PROTECTION	Fuse recommended. 12Vin models: 300mA Slow-Blow Type 24Vin models: 150mA Slow-Blow Type 48Vin models: 100mA Slow-Blow Type	
	INTERNAL POWER DISSIPATION	500mW	
OUTPUT	VOLTAGE ACCURACY	±2.0%	
	RATED POWER	1W	
	RIPPLE & NOISE Note.2	100mVp-p	
	LINE REGULATION Note.3	±0.5%	
	LOAD REGULATION Note.4	±0.5%	
	SWITCHING FREQUENCY (Typ.)	500KHz	
PROTECTION	OVERLOAD	130 ~ 200% rated output power Protection type : Recovers automatically after fault condition is removed	
	SHORT CIRCUIT	Protection type: Continuous, automatic recovery	
	COOLING	Free-air convection	
ENVIRONMENT	WORKING TEMP.	Standard model: -40 ~ +90°C (Refer to "Derating Curve")	
	CASE TEMPERATURE	+110°C max.	
	WORKING HUMIDITY	20% ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-55 ~ +125°C, 10 ~ 95% RH non-condensing	
	TEMP. COEFFICIENT	0.03% / °C (0 ~ 85°C)	
	SOLDERING TEMPERATURE	1.5mm from case of 1 ~ 10sec./240°C max.	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
SAFETY & EMC (Note.5,6)	SAFETY STANDARDS	EAC TP TC 020/2011 approved	
	WITHSTAND VOLTAGE	I/P-O/P:1.5KVDC	
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH	
	ISOLATION CAPACITANCE (Typ.)	80pF	
	EMC EMISSION	Parameter	Standard
		Conducted	BS EN/EN55032(CISPR32)
		Radiated	BS EN/EN55032(CISPR32)
	EMC IMMUNITY	Parameter	Test Level / Note
		ESD	BS EN/EN61000-4-2 Level 3, ±8KV air, Level 2, ±4KV contact
		Radiated Susceptibility	BS EN/EN61000-4-3 Level 2, 3V/m
		EFT/Burest	BS EN/EN61000-4-4 Level 1, 0.5KV at power, Level 2, 0.5KV at signa
		Surge	BS EN/EN61000-4-5 Level 2, 0.5KV Line-Line, Level 2, 1KV Line-gro
		Conducted	BS EN/EN61000-4-6 Level 2, 3V(e.m.f)
		Magnetic Field	BS EN/EN61000-4-8 Level 1, 1A/m
	MTBF	630Khrs min. MIL-HDBK-217F(25°C)	
OTHERS	DIMENSION (L*W*H)	15.24*10.9*7.1mm (0.6*0.43*0.28 inch)	
	CASE MATERIAL	Non-Conductive black plastic (UL 94V-0 rated)	
	PACKING	Standard : 1.4g ; 32pcs/per tube, 3840pcs/120 tube/per carton Optional : 1.4g ; 500pcs/per reel, 2500pcs/5 reel/per carton	
	NOTE	1.All parameters are specified at normal input(A:12Vdc, B:24Vdc, C:48Vdc), rated load, 25°C 70% RH ambient. 2.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1µf & 47µf capacitor. 3.Line regulation is measured from low line to high line at rated load. 4.Load regulation is measured from 10% to 100% rated load. 5.The final equipment must be re-confirm that it still meet EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."(as available on http://www.meanwell.com) 6.An external input filter capacitor is required if the module has to meet BS EN/EN61000-4-4, BS EN/EN61000-4-5. The filter capacitor Power Mate suggest: 470µF/100V.	

Mechanical Specification

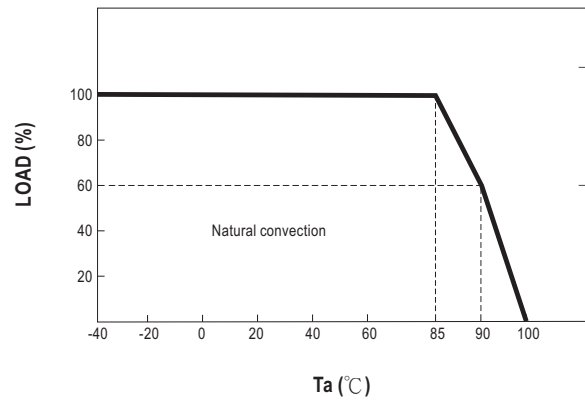
- All dimensions in mm(inch)
- Tolerance: $x.xx \pm 0.5\text{mm}$ ($x.xx \pm 0.02"$)
 $x.xx \pm 0.25\text{mm}$ ($x.xxx \pm 0.01"$)
- Pin size is $0.50 \times 0.30\text{mm}$ ($0.02" \times 0.01"$)
- Pin is Tolerance: $x.xx \pm 0.07\text{mm}$ ($x.xxx \pm 0.003"$)



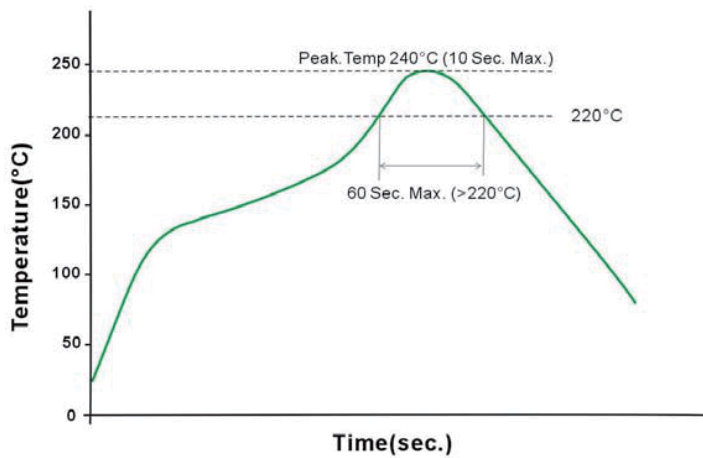
Pin Configuration

Pin No.	Pin-Out
1	-Vin
5	-Vout
6	+Vout
12	+Vin
2,3,7,8,10,11	N.C.

Derating Curve

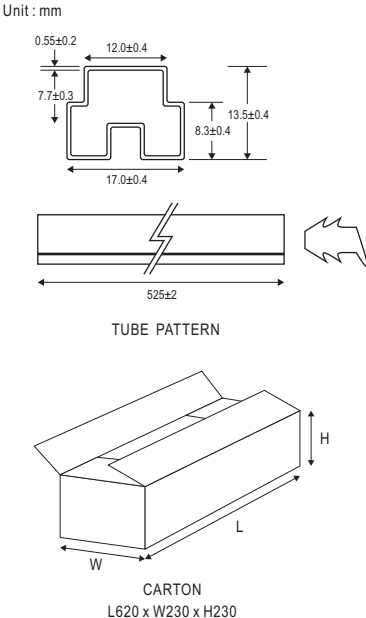
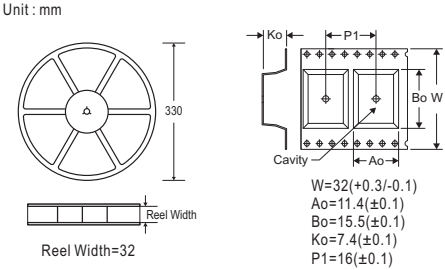


Reflow Soldering Curve



Remark: The curve applies only to the hot air reflow soldering.

Packing

Standard Tube Packing	MPQ Per Tube (PCS)	One Tube G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
Unit : mm  TUBE PATTERN CARTON L620 x W230 x H230 	32	0.065Kg	3840	8.6Kg
Optional Reel Packing	MPQ Per Reel (PCS)	One Box G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
Unit : mm  Reel Width=32 W=32(+0.3/-0.1) Ao=11.4(±0.1) Bo=15.5(±0.1) Ko=7.4(±0.1) P1=16(±0.1)  INNER BOX L355*W338*H50 OUTER CARTON L380*W290*H370	500	1.4Kg	2500	7.8Kg

Installation Manual

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