

- **HIGH POWER DENSITY**
- **SIP/DIP PACKAGE**
- **SINGLE OUTPUT VOLTAGE**
- **INDUSTRIAL STANDARD PIN-OUT**
- **NO HEAT SINK REQUIRED**
- **1K VDC ISOLATION**
- **FIXED INPUT VOLTAGE**
- **REGULATED OUTPUT VOLTAGE**
- **PCB MOUNTING**



**RoHS COMPLIANT**

### ELECTRICAL SPECIFICATIONS:

(All specifications tested typically @ 25°C, humidity<75%, nominal input and rated output unless otherwise noted.)

### OUTPUT SPECIFICATIONS

Items:	Testing condition	Min	Typ	Max
Output accuracy:	At full load and nominal Vin			±2%
Output power:				1W
Line regulation:	Input voltage from low to full load			±0.5%
Load regulation:	From 20% to full load			±0.5%
Ripple and noise:	20MHz bandwidth			20mVp-p
Temperature drift:				±0.02 %/°C
Switching frequency			80K HZ	
Short circuit protection		60s		

### INPUT SPECIFICATIONS

Items:	Testing condition	Min	Typ	Max
Input voltage range (±5%)	3.3 VDC nominal input	3.1-3.46		
	5 VDC nominal input	4.75-5.25		
	9 VDC nominal input	8.55-9.45		
	12VDC nominal input	11.4-12.6		
	15 VDC nominal input	14.25-15.75		
	24VDC nominal input	22.8-25.2		

## COMMON SPECIFICATIONS

Items		Min	Typ.	Max
Operating temperature range		-40°C		+85°C
Storage temperature range		-55°C		+125°C
Humidity				<75%
Cooling	Free Air Convection			
Isolation voltage (VDC)	Input to Output		1,000	
Isolation resistance (ohms)			10 <sup>9</sup>	
Isolation capacitance (pF)				60
Efficiency (%)	See Product List	64		79
Case material	Non-conductive black plastic			
Potting material	Epoxy Resin UL94-V0			
Packing material	Tube			
Dimension (mm / inch)	SIP: 19.6*6.0*10(0.77*0.24*0.40) DIP: 20.4*10*8.2(0.8*0.4*0.32)			
Weight (g)	3			
MTBF (Hrs)	>1,000,000			

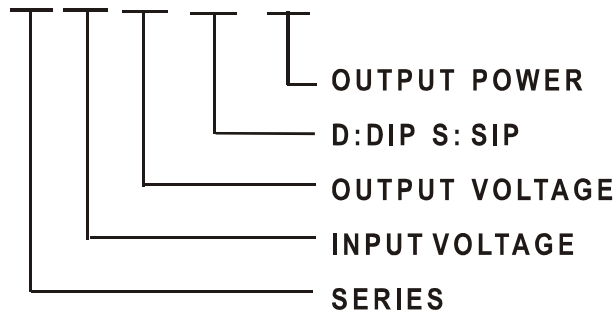
## PRODUCT LIST

Part Number	Input Voltage (VDC)			Output		Efficiency (%, Typ.)	Package
	Range	Nominal	Max.	Current (mA)	Voltage (VDC)		
IB0505D-1W	4.75-5.25	5	5.25	200	5	71	DIP
IB0505D-W75	4.75-5.25	5	5.25	150	5	71	DIP
IB0512D-1W	4.75-5.25	5	5.25	84	12	76	DIP
IB1205D-1W	11.4-12.6	12	12.6	200	5	71	DIP
IB1212D-1W		12	12.6	84	12	76	DIP
IB1209D-1W		24	12.6	111	9	72	DIP
IB2405D-1W	22.8-25.2	24	25.2	200	5	71	DIP
IB2409D-1W		24	25.2	111	9	72	DIP
IB2412D-1W		24	25.2	84	12	79	DIP
IB0503S-1W	4.75-5.25	5	5.25	200	3.3	64	SIP
IB0505S-1W		5	5.25	200	5	71	SIP
IB0505S-W5		5	5.25	100	5	71	SIP
IB0505S-W75		5	5.25	150	5	71	SIP
IB0512S-1W		5	5.25	84	12	76	SIP
IB0524S-1W		5	5.25	41.66	24	60	SIP
IB1205S-1W	11.4-12.6	12	12.6	200	5	71	SIP
IB1212S-1W		12	12.6	84	12	76	SIP
IB1209S-1W		12	12.6	111	9	72	SIP
IB2405S-1W	22.8-25.2	24	25.2	200	5	71	SIP
IB2409S-1W		24	25.2	111	9	72	SIP
IB2412S-1W		24	9.45	84	12	79	SIP

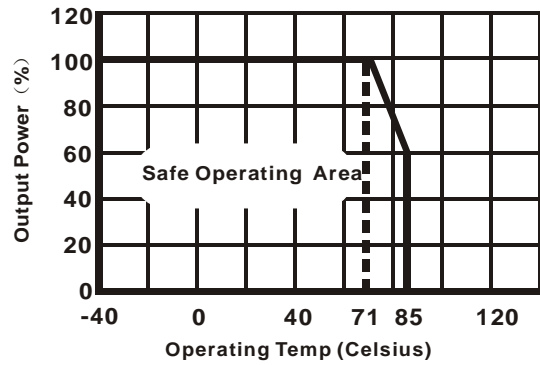
Only some models, if you need other types, let us know

## NOMENCLATURE

### IB 05 05D/S-1W

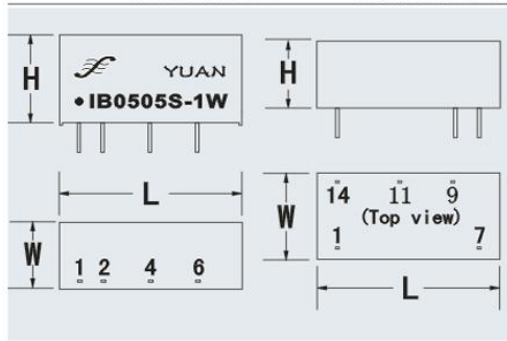


## TEMPERATURE DERATING GRAPH



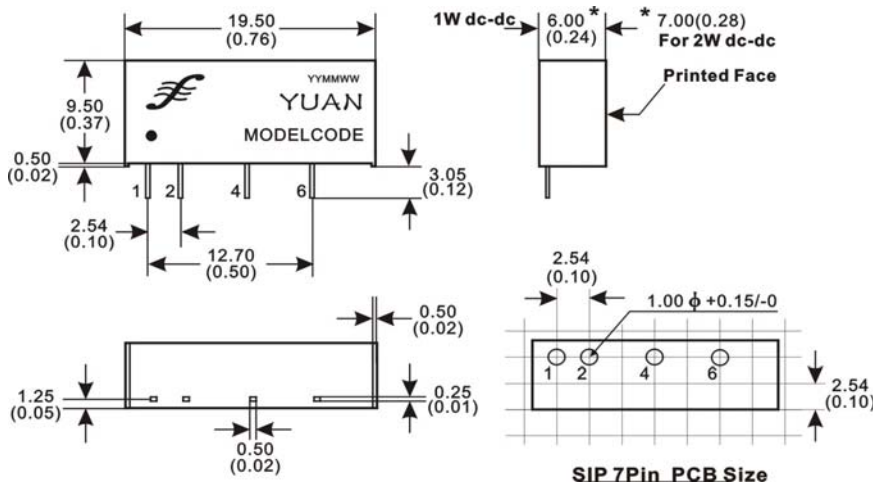
## OUTLINE DIMENSION

SIZE	SIP(LxWxH)	DIP(LxWxH)
0.1~1W	19.6x6.0x10	20.4x10x6.5



PKG	Vin	GND	-Vo	0V	+Vo
IBS	1	2	-	4	6
IBD	14	1	-	11	9

\*注意: nc脚不能和其它地方连接



SIP 7Pin PCB Size

## PINS DESCRIPTION

SIP	Connection	DIP
1	Vin	14
2	GND	1
4	0V	11
6	+Vo	9

SHENZHEN SUNYUAN TECHNOLOGY CO., LTD.

2F, 1Bldg, shenhua Technical Park.,  
Meixiu Rd. Futian District,  
Shenzhen 518049, China  
Tel: +86-755-83100080  
Fax: +86-755-83116652

www.szsunyuan.com