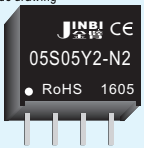
DC-DC CONVERTER　　DC-DC微功率非稳压输出系列

Y2-N2 SERVES

⊙封装尺寸Size dimensional：11.9x7.5x10.0mm
⊙定电压输入，非稳压输出Fixed input,Unregulated output
⊙转换效率Converter efficiency :80-89%
⊙开关频率Swiching frequency:100-200KHz±30KHz
⊙输入反向保护Input reverse protection
⊙输入与输出高隔离Input-output isolate
⊙PCB板上直插式安装Board in-line type installs
⊙温度适应范围宽Wide temperature range
⊙超薄SIP封装ultra-thin

外形图Outside drawing



CE RoHS

输入特性Input

	标称Nom(V)	最小Min(V)	最大Max(V)	输入范围Input range
输入电压范围 Input voltage range	3.3Vdc	3.0Vdc	3.6Vdc	±10%
	5Vdc	4.5Vdc	5.5Vdc	±10%
	9Vdc	8.1Vdc	9.9Vdc	±10%
	12Vdc	10.8Vdc	13.2Vdc	±10%
	15Vdc	13.5Vdc	16.5Vdc	±10%
	24Vdc	21.6Vdc	26.4Vdc	±10%

输出特性Output

输出电压精度Output voltage accuracy	标称电压Nominal output voltage	Vo1:±1.2%(Max)
源效应Line regulation	标称负载，全范围Nominal load，gamut	Vo1:±15%(Max)
负载效应Load regulation	20%～100%额定负载Rated load	Vo1:±5~15%
线性调解率	输入电压变化±1%	输出电压变化±1~1.5%
输出纹波及噪声Output Ripple and noise	20MHz Bm满载Full load	50~150mVp-p
最小负载Min Load		10%
电压输出形式	输出随输入变化 input change with output	非稳压输出Unregulated output
启动延迟时间Start delay time	典型值Typical	≤200mS
输入保护Input protection	输入反向保护Input reverse protection	自恢复Auto recovery

一般特性General

转换效率Effciency	Vo≤5.0V:80%典型Typical	Vo＞5.0V:85%典型Typical
开关频率Switching frequency	100KHz典型Typical	200KHz最大Max
工作温度Operating temperature	自由空气对流Free air convection	-25℃～+75℃工业级Industrial level
		-40℃～+85℃军I级Military I level
焊接温度Welding temperature	手工焊接Hand welding	360±10℃;时间Time :5～10S
	波峰焊接Wave welding	260±5℃;时间Time: 3～5S
储存温度Storage temperature		-40℃～+105℃
相对湿度Relative humidity		10%～90%
外壳材料Case material		UL94V-O黑色塑壳Black plastic case:DP
隔离电压Isolation voltage	输入与输出Input and output	1000Vdc≤0.5mA/1分钟Minute
	输入与外壳Input and case	1000Vdc≤0.5mA/1分钟Minute
最小无故障间隔时间（MTBF）		$2X10^5$Hrs

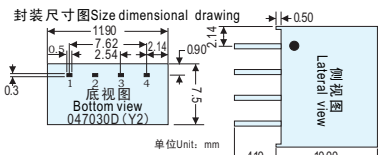
Y1-N2 SERVES

典型应用Type

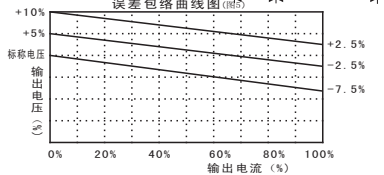
输入电压范围 Input voltage range	标称输出电压/输出电流Nom output voltage/current					
	单路Single		型号Type	单路Single		型号Type
	V	A		V	A	
3V3(3.0-3.6V) 5V(4.5-5.5V) 9V(8.1-9.9V) 12V(10.80-13.2V) 15V(13.5-16.5V) 24V(21.6-26.4V)	5V	400mA	03S05Y2-N2	5V	400mA	12S05Y2-N2
	9V	280mA	03S09Y2-N2	9V	280mA	12S09Y2-N2
	12V	160mA	03S12Y2-N2	12V	160mA	12S12Y2-N2
	15V	133mA	03S15Y2-N2	15V	133mA	12S15Y2-N2
	24V	80mA	03S24Y2-N2	24V	80mA	12S24Y2-N2
	5V	400mA	05S05Y2-N2	5V	400mA	15S05Y2-N2
	9V	280mA	05S09Y2-N2	9V	280mA	15S09Y2-N2
	12V	160mA	05S12Y2-N2	12V	160mA	15S12Y2-N2
	15V	133mA	05S15Y2-N2	15V	133mA	15S15Y2-N2
	24V	80mA	05S24Y2-N2	24V	80mA	15S24Y2-N2
	5V	400mA	09S05Y2-N2	5V	400mA	24S05Y2-N2
	9V	280mA	09S09Y2-N2	9V	280mA	24S09Y2-N2
	12V	160mA	09S12Y2-N2	12V	160mA	24S12Y2-N2
	15V	133mA	09S15Y2-N2	15V	133mA	24S15Y2-N2
	24V	80mA	09S24Y2-N2	24V	80mA	24S24Y2-N2

注:1、因篇幅有限，以上只是部分产品列表，若需列表以外产品，请与本公司销售部或办事处联系。
2、当工作温度为+70℃时，应按温度降额曲线图使用。
3、测试条件:所有参数测试均在标称输入电压、纯阻性额定负载及25℃室温环境下测得。

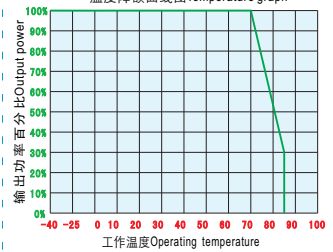
封装尺寸图Size dimensional drawing



误差包络曲线图(典型)



温度降额曲线图Temperature graph



管脚说明Pin	1	2	3	4
单路Single	-Vin	+Vin	GND	+Vout