KYBD-5W Series

HOPOWER

G0908

NC

Vo

Features

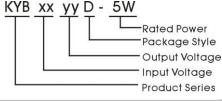
- ★ DIP Package
- ★ Temperature Range:-40°C to +85°C
- UL94V-0 Inflaming retarding package
- ★ MTBF>1million hours(25℃)
- Short-circuit protection
- Output Short Circuit Protection

Applications

The KYB_D-5W Series are specially designed for applications where a wide range input voltage power supplies are isolated from the input power supplyin a distributed power supply system on a circuit board. For these DC-DC converters, you can reduce the design point of failure and save the development of micto power supply's manpower, material and time costs , also better ensure product quality stability, protect safety and reliability of the end of products. These products apply to where: KYB xx yy D - 5W

1. Input and output isolation noise is required.

- 2. Regulated and low ripple noise is required.
- Such as: tele-communications etc, industrial control.



HOPOWER

GND

Vin

KYB0505D-5W

MADEIN CHINA

Model Detail List Specification

Model Number	Input Voltage	Output Voltage	Output Cu Min.	irrent (mA) Max.	Input Current Max.	Efficiency	Max. Capacitive Load(µF)	
KYB0503D-5W	5~9V	3.3V	150	1500	1164	85%	1520	
KYB0705D-5W	6.5~9V	5.0V	100	1000	811	88%	1020	
KYB1203D-5W	9~18V	3.3V	150	1500	196	83%	1520	
KYB1205D-5W	9~18V	5.0V	100	1000	490	85%	1520	

Output Specifications

ltem	Test Conditions	Min.	Тур.	Max.	Unit		
Output Power		0.5		5	w		
Line Voltage Regulation	For Vin change of ±1%			±0.25	- %		
Load regulation	10% to 100% load			0.5			
Ripple	20MHz Bandwidth		50				
Noise			75		mVp-p		
Temperature Drift	100% full load			±0.03	%/°C		
Input Filter		C Filter					
Switching Frequency	Full load, nominal input		100		KHz		
MTBF	MIL-HDBK-217F@25℃	1000			K hours		
Isolation Resistance	Test at 500VDC	1000			MΩ		
Isolation Capacitance			300		pF		
Weight			3.5		g		

KYBD-5W Series



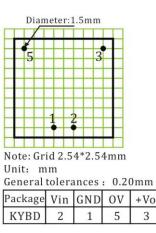
Environmental Specifications

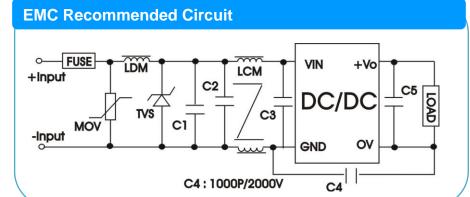
ltem	Test Conditions	Min.	Тур.	Max.	Unit	
Storage Humidity	Non condensing			95	%	
Temp. rise at full load			25	45		
Operating Temperature		-40		85	Ċ	
Storage Temperature	Power derating (above 85℃)	-55		125	-	
Soldering Temperature	1.5mm from case for 10 seconds			300		
Cooling		Free air convection				

Mechanical Dimensions &

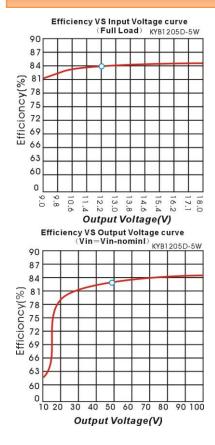
Recommended Footprint

$\begin{array}{c} 25.4 \\ 20.32 \\ \hline 5 \\ 3 \\ (Bottom View) \\ \hline 1 \\ 2 \\ 5 \\ 3 \\ \hline 0 \\ 5 \\ \hline 0 \\ 5 \\ \hline 0 \\ 5 \\ \hline 0 \\ \hline 0 \\ 5 \\ \hline 0 \\ \hline 0 \\ 0$





Product typical Curve



Tolerance Envelope Curve & Temperature Derating Graph

