

multi-country patent protection

HK8S05IB / HK12S05IB

SINGLE OUTPUT & SPECIALLY DESIGNED FOR APPLICATION OF INTELLIGENT PASSIVE TRANSMITTER

FEATURES

- High Reliability
- High Accuracy, High Stability
- High Density
- Good Performance Both Under High and low Temperature, Meet Industrial Technical Requirements
- High Isolation
- Industry Standard Pinout
- Antiflaming Packaging, UL94-V0 Compliant
- Low Temperature Rise, Natural Cooling
- RoHS Compliance

MORNSUN Science & Technology Ltd.

Address: 2th floor 6th building, Hangzhou Industrial District, Guangzhou, China
 Tel: 86-20-38601850
 Fax: 86-20-38601272
 http://www.mornsun-power.com

PRODUCT PROGRAM

Part Number	Input		Output	
	Voltage (VDC)	Current range (mA)	Voltage (VDC)	Current (mA)
HK8S05IB	7.5	4-20	5	3.5
HK12S05IB	12	4-20	5	3.5

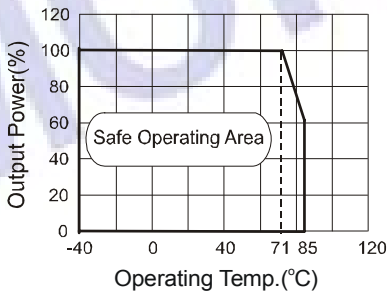
COMMON SPECIFICATIONS

Isolation voltage (Tested for 1 minute and 1mA Max)	1000VDC
Isolation resistance (Test at 500VDC) (note1)	1000MΩ (Min)
Cooling	Free air convection
No load Input Current	1mA
Current (lin, Max)	25mA
Operating temperature range	-40°C to +85°C
Lead temperature (note2)	300°C
Storage temperature range	-55°C to +125°C
Storage humidity range	≤95%
Output voltage accuracy (100% load, nominal input voltage)	±3%
Case material	Plastic (UL94-V0)
MTBF	>3500,000 hours

Note:
 1. All specifications measured at TA=25°C, humidity ≤70%, nominal input voltage and rated output load unless otherwise specified.
 2. Lead temperature 1.5mm from case for 10 seconds

TYPICAL CHARACTERISTICS

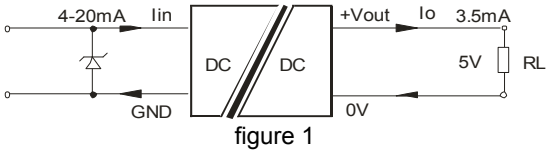
Temperature Derating Graph



APPLICATION NOTE

Testing and application circuit

The products have been tested according to the following recommended testing circuit before leaving factory. This series should be tested under load (See Figure 1).



- Note:
- In application, the unit can be directly connected to two-wire transmitter Loop (4 to 20mA) In Series.
 - Function Of Zener Diode (HK8S05IB/1N4737; HK12S05IB/1N4742):
 - a. Voltage Collection
 - b. current Distribution

TYPICAL CHARACTERISTICS

