GBX01 SERIES

1 Watts SMD Type
DC - DC Converter

FEATURES

- Efficiency up to 81%
- Miniature SMD package
- 1500VDC isolation
- Industry Standard Pinout
- Internal SMD construction
- No external component required

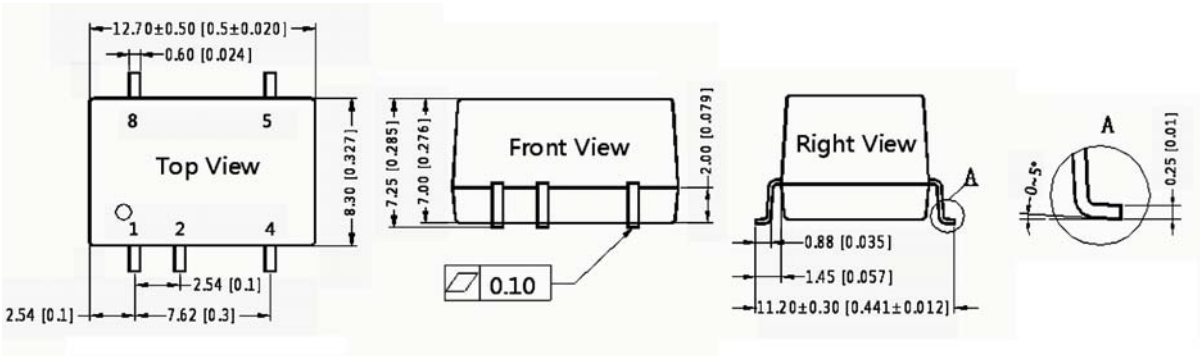
SPECIFICATIONS

Input Voltage Range.....See Model List
Line Regulation[1] .....3.3V: ±1.5% / Others: ±1.2% max.
Load Regulation[2].....3.3V:18%; 5V: 12%; 9V: 8%
12V:7%; 15V: 6%; 24V: 5% Typ.
Temperature Drift, 100% load.....± 0.03%/℃ Max.
Ripple & Noise(20MHzBW).....Vout <=12V.....30 mVp-p Max.
Vout =15V, 24V.....60 mVp-p Max.
Short Circuit Protection.....Continuous, auto-recovery
Isolation Voltage[3]..... 1500VDC
Isolation Resistance[4].....1000MΩ Min.
Switching Frequency.....100KHZ Min.
MTBF.....3500K hours
Storage Humidity Range.....95% Max.
Operating Temperature Range... ... .-40℃ ~ +105℃
Storage Temperature Range..... -55℃ ~ +125℃
Temperature Rise at Full Load.....25℃ (Max)
Lead Temperature[5].....300℃
Cooling.....Free Air Convection
Case Material.....Epoxy Resin (UL94-V0)
Weight.....15g

Model Number	Input Voltage (VDC)		Output			Eff. %
	Nominal	Range	Voltage (VDC)	Current (mA) Max	Current (mA) Min	
GBX01-00	5	4.5~5.5	3.3	303	30	76
GBX01-01	5	4.5~5.5	5	200	20	80
GBX01-01B	5	4.5~5.5	9	111	12	80
GBX01-02	5	4.5~5.5	12	84	9	80
GBX01-03	5	4.5~5.5	15	67	7	80
GBX01-09	5	4.5~5.5	24	42	4	80
GBX01-10	12	10.8~13.2	3.3	303	30	75
GBX01-11	12	10.8~13.2	5	200	20	80
GBX01-11B	12	10.8~13.2	9	111	12	80
GBX01-12	12	10.8~13.2	12	84	9	81
GBX01-13	12	10.8~13.2	15	67	7	81
GBX01-21	24	21.6~26.4	5	200	20	80
GBX01-21B	24	21.6~26.4	9	110	11	80
GBX01-23	24	21.6~26.4	15	67	7	81
GBX01-29	24	21.6~26.4	24	42	4	81

Note:
(1) For Vin change of±1%
(2) Measured from 10% to 100% Load
(3) Input-output, tested for 60 sec. and leakage current less than 1 mA
(4) Input-output, test at 500VDC
(5)1.5mm from case for 10 sec.

MECHANICAL DRAWING (Unit:mm)



PIN CONNECTION	
Pin	Function
1	GND
2	Vin
4	0V
5	+Vo
8	NC

NC:No Connection

Note:
Unit: mm[inch]
Pin section tolerances: ± 0.10[± 0.004]
General tolerances: ± 0.25[± 0.010]