

## B\_S-1W Series Isolated, Unregulated, 1W output DC-DC module



FN93025c219 M/N B0505S-1W

FN93025c220 M/N B1205S-1W

FN93025c221 M/N B2424S-1W

### **Features:**

Input voltage: 5/12/15/24 VDC  $\pm 10\%$

Max. Isolated voltage: 1000VDC

Life time: 2 years

Protection: short-time short circuit protection

Comply: RoHS

Package Type: SIP 4

### **Output specification:**

Output Power: Max. 1W

Line regulation: Max. 1.2% (Condition: rated loading, input voltage changing rate:  $\pm 1\%$ )

Load regulation: Max, 10% (Condition: Standard input, loading changing from 10% to 100%)

Temperature Drift factor: Max.  $\pm 0.03\%$  /  $^{\circ}\text{C}$  (Condition: rated loading)

Ripple and Noise: Max. 100 mV (Condition: Bandwidth: 20MHz, Parallel Line method)

Switching frequency: 100 KHz ( Condition: rated loading )

Output voltage accuracy: see Error envelope curve drawing

### **Isolation specification:**

Isolation resistance: Mini. 1000 M ohm (Condition: 500VDC)

Isolation voltage: Mini. 1000 VDC (Condition: testing time: 1 min. Leaking  $< 1\text{mA}$ )

### **General specification:**

Storage temperature:  $-20^{\circ}\text{C}$  to  $55^{\circ}\text{C}$

Working temperature:  $-10^{\circ}\text{C}$  to  $45^{\circ}\text{C}$

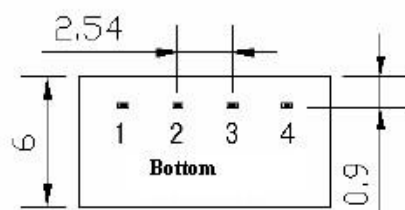
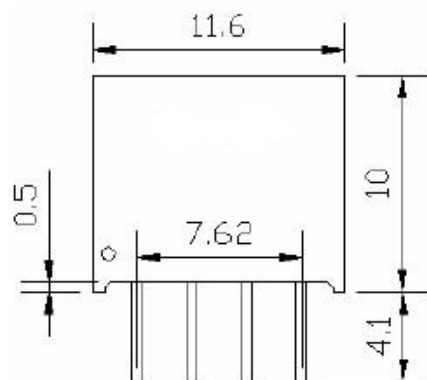
Case material: non conducting plastics UL94V-0 rated

Max. capacitive load: 4.7 $\mu$ F

## Product List:

Model No.	Rated Input Voltage		Rated Output		Standard Efficiency (%)
	Standard	Range	Voltage	Current (mA)	
B0303S-1W	3.3	3.0-3.6	3.3	303	72
B0305S-1W			5	200	74
B0503S-1W	5	4.5-5.5	3.3	303	72
B0505S-1W			5	200	70
B0509S-1W			9	111	78
B0512S-1W			12	83	79
B0515S-1W			15	67	80
B0524S-1W			24	42	78
B1203S-1W	12	10.8-13.2	3.3	303	72
B1205S-1W			5	200	71
B1209S-1W			9	111	76
B1212S-1W			12	83	78
B1215S-1W			15	67	80
B1505S-1W	15	13.5-16.5	5	200	71
B1515S-1W			15	67	78
B2403S-1W	24	21.6-26.4	3.3	303	71
B2405S-1W			5	200	73
B2409S-1W			9	111	78
B2412S-1W			12	83	79
B2415S-1W			15	67	80
B2424S-1W			24	42	80

## Pin Assignments and drawing. (mm)



PIN	Function
1	GND
2	V <sub>in</sub>
3	0V
4	+V <sub>o</sub>

Pin spec. : 0.2\*0.5

Unit: mm

Input Voltage	connect capacitor C1	Output Voltage	connect capacitor C2
3.3VDC	4.7uF	3.3VDC	10uF
5VDC	4.7uF	5VDC	10uF
12VDC	2.2uF	9VDC	4.7uF
--	--	12VDC	2.2uF
--	--	15 VDC	1uF

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